



2023

Launch Day **LIVE**

9:00 A.M. CDT | April 15

1
00:03:16,980 --> 00:03:21,229
there's one two test

2
00:03:41,990 --> 00:03:23,630
sure good morning and welcome to NASA's

3
00:05:43,090 --> 00:03:44,030
yes I just don't know where all of our

4
00:05:47,689 --> 00:05:45,770
everyone it is an absolutely beautiful

5
00:05:50,029 --> 00:05:47,699
day here at Bragg farms in Tony Alabama

6
00:05:51,529 --> 00:05:50,039
we are just a few miles away from NASA's

7
00:05:53,270 --> 00:05:51,539
Marshall space flight center and just a

8
00:05:55,850 --> 00:05:53,280
few minutes away from the start of the

9
00:05:57,650 --> 00:05:55,860
finale of the 2023 NASA student launch

10
00:05:59,450 --> 00:05:57,660
competition my name is will Brian with

11
00:06:00,950 --> 00:05:59,460
NASA space launch system program and

12
00:06:02,330 --> 00:06:00,960
alongside me is my great colleague Lane

13
00:06:03,770 --> 00:06:02,340

figuero with NASA's Marshall space

14

00:06:05,510 --> 00:06:03,780

flight center now Lane we're getting

15

00:06:06,950 --> 00:06:05,520

ready to launch these Rockets teams are

16

00:06:08,810 --> 00:06:06,960

setting their Rockets up on the pads

17

00:06:10,610 --> 00:06:08,820

right now but we say finale because this

18

00:06:12,830 --> 00:06:10,620

is truly a culmination for these teams

19

00:06:14,990 --> 00:06:12,840

isn't it yes absolutely well this is a

20

00:06:17,330 --> 00:06:15,000

result of nine months of hard work and

21

00:06:19,790 --> 00:06:17,340

dedication this competition requires

22

00:06:21,469 --> 00:06:19,800

students to design build test and

23

00:06:23,270 --> 00:06:21,479

eventually launch their Rockets here in

24

00:06:25,730 --> 00:06:23,280

Alabama and we're so excited to see them

25

00:06:27,650 --> 00:06:25,740

finally fly we have over 40 student

26
00:06:29,870 --> 00:06:27,660
teams from middle schools high schools

27
00:06:31,730 --> 00:06:29,880
and universities competing today so

28
00:06:33,590 --> 00:06:31,740
super exciting but before we have our

29
00:06:40,909 --> 00:06:33,600
first launch we have an opening ceremony

30
00:06:45,409 --> 00:06:43,430
good morning and welcome to NASA's

31
00:06:47,330 --> 00:06:45,419
student launch challenge my name is

32
00:06:49,850 --> 00:06:47,340
Lauren Perkins with NASA's Marshall

33
00:06:52,249 --> 00:06:49,860
space flight center before we hear from

34
00:06:54,230 --> 00:06:52,259
our distinguished speakers please rise

35
00:06:56,990 --> 00:06:54,240
for the national anthem you can direct

36
00:06:59,870 --> 00:06:57,000
your attention down the launch field to

37
00:07:01,850 --> 00:06:59,880
the American flag our national anthem is

38
00:07:04,610 --> 00:07:01,860

performed by Meredith Patterson and

39

00:07:17,469 --> 00:07:04,620

Francis McBride of North Carolina State

40

00:07:24,010 --> 00:07:21,710

oh say can you see

41

00:07:29,950 --> 00:07:24,020

by the

42

00:07:35,270 --> 00:07:29,960

daunterly light what so proudly we hail

43

00:07:38,690 --> 00:07:35,280

at the twilight's last gleaming whose

44

00:07:45,249 --> 00:07:38,700

spots drives and bright stars

45

00:07:45,259 --> 00:07:53,050

we watch we're so gallantly streaming

46

00:08:04,730 --> 00:07:59,870

Pockets red glare the bombs bursting in

47

00:08:10,670 --> 00:08:04,740

the cave proof through the night that

48

00:08:13,880 --> 00:08:10,680

our flag was still there oh say does

49

00:08:19,270 --> 00:08:13,890

that store Spangled

50

00:08:30,469 --> 00:08:25,869

or the land of the free

51

00:08:41,510 --> 00:08:30,479

and the home of the

52

00:08:41,520 --> 00:08:45,290

thank you Meredith and Francis

53

00:08:50,449 --> 00:08:47,810

it is now my pleasure and honor to

54

00:08:52,550 --> 00:08:50,459

introduce the deputy director of NASA's

55

00:08:57,850 --> 00:08:52,560

Marshall space flight center please

56

00:09:05,329 --> 00:09:00,670

thank you

57

00:09:10,190 --> 00:09:05,339

good morning rocketeers and welcome

58

00:09:13,730 --> 00:09:12,290

on behalf of NASA Marshall space flight

59

00:09:16,190 --> 00:09:13,740

center I want to congratulate all the

60

00:09:18,590 --> 00:09:16,200

teams for your hard work

61

00:09:20,509 --> 00:09:18,600

your tenacity your resilience to get to

62

00:09:23,150 --> 00:09:20,519

today I know it was a lot of work in

63

00:09:26,150 --> 00:09:23,160

designing and building and testing and

64

00:09:27,889 --> 00:09:26,160

preparing for launch day

65

00:09:30,410 --> 00:09:27,899

and I'm sure you'll be glad for us to be

66

00:09:33,530 --> 00:09:30,420

done talking so you can go fly

67

00:09:37,250 --> 00:09:33,540

we're excited to have you here

68

00:09:40,250 --> 00:09:37,260

today is a culmination of a lot of work

69

00:09:42,769 --> 00:09:40,260

to get to this place

70

00:09:44,389 --> 00:09:42,779

to see the fruits of your labor

71

00:09:46,250 --> 00:09:44,399

and we're excited to see the missions

72

00:09:48,590 --> 00:09:46,260

that you're going to accomplish today

73

00:09:52,070 --> 00:09:48,600

to complete all your objectives

74

00:09:54,410 --> 00:09:52,080

and to successfully finish the mission

75

00:09:56,329 --> 00:09:54,420

I want to thank our sponsors and our

76

00:09:59,090 --> 00:09:56,339

partners in today's event

77

00:10:01,009 --> 00:09:59,100

the office of stem engagement uh huge

78

00:10:08,449 --> 00:10:01,019

let's give them an Applause that team to

79

00:10:12,829 --> 00:10:10,430

I want to thank NASA's space operations

80

00:10:14,990 --> 00:10:12,839

Mission director for their sponsorship

81

00:10:16,430 --> 00:10:15,000

and partnership in this as well

82

00:10:18,590 --> 00:10:16,440

absolutely

83

00:10:19,550 --> 00:10:18,600

in our industry Partners in Northrop

84

00:10:21,590 --> 00:10:19,560

Grumman

85

00:10:23,870 --> 00:10:21,600

uh the National Space club and the

86

00:10:25,250 --> 00:10:23,880

National Association of rocketry and we

87

00:10:32,389 --> 00:10:25,260

couldn't put on without this event let's

88

00:10:37,130 --> 00:10:34,310

I also want to give big shout out to the

89

00:10:38,210 --> 00:10:37,140

mentors to the teachers the coaches the

90

00:10:40,430 --> 00:10:38,220

parents

91

00:10:44,210 --> 00:10:40,440

they have invested time to help you guys

92

00:10:47,810 --> 00:10:44,220

get here today and we know all great

93

00:10:49,190 --> 00:10:47,820

teams have mentors and sponsors that

94

00:10:56,269 --> 00:10:49,200

support us let's give them a round of

95

00:11:00,430 --> 00:10:58,370

so NASA is currently working on a lot of

96

00:11:04,190 --> 00:11:00,440

awesome things going on right now

97

00:11:06,050 --> 00:11:04,200

and we have opened a new chapter of

98

00:11:08,389 --> 00:11:06,060

space exploration

99

00:11:11,030 --> 00:11:08,399

during the Artemis One mission in

100

00:11:12,769 --> 00:11:11,040

November the space launch system rocket

101
00:11:14,990 --> 00:11:12,779
built who managed right here in

102
00:11:17,630 --> 00:11:15,000
Huntsville Alabama

103
00:11:19,970 --> 00:11:17,640
carry the Orion spacecraft to lunar

104
00:11:22,009 --> 00:11:19,980
orbit over 250

105
00:11:23,930 --> 00:11:22,019
000 miles further than any human rated

106
00:11:26,030 --> 00:11:23,940
spacecraft had ever flown

107
00:11:29,150 --> 00:11:26,040
it was a historic mission

108
00:11:31,910 --> 00:11:29,160
that paved the way for future deep space

109
00:11:33,710 --> 00:11:31,920
exploration in a new chapter for NASA in

110
00:11:36,829 --> 00:11:33,720
the world

111
00:11:40,370 --> 00:11:36,839
that mission was a plus

112
00:11:42,889 --> 00:11:40,380
and we have been reviewing the data from

113
00:11:46,190 --> 00:11:42,899

that mission and we can clearly say that

114

00:11:53,210 --> 00:11:46,200

we are ready to fly crew on Artemis 2.

115

00:11:57,230 --> 00:11:55,190

recently NASA named the crew for the

116

00:11:59,630 --> 00:11:57,240

Artemis II mission which will be

117

00:12:02,870 --> 00:11:59,640

historic and groundbreaking in itself

118

00:12:04,490 --> 00:12:02,880

as we will fly the first woman in the

119

00:12:10,970 --> 00:12:04,500

first person of color on a deep space

120

00:12:18,350 --> 00:12:13,990

Reid Wiseman Victor Glover Christina cut

121

00:12:19,850 --> 00:12:18,360

and Jeremy Hanson will be the crew to

122

00:12:21,590 --> 00:12:19,860

return humans to the moon for the first

123

00:12:23,990 --> 00:12:21,600

time in 50 years

124

00:12:27,290 --> 00:12:24,000

and that will pave the way

125

00:12:29,269 --> 00:12:27,300

for the next human landing on Artemis 3.

126
00:12:30,949 --> 00:12:29,279
on the human Landing system is being

127
00:12:33,350 --> 00:12:30,959
managed right here at Marshall's space

128
00:12:35,750 --> 00:12:33,360
flight center with our partner SpaceX

129
00:12:37,790 --> 00:12:35,760
we will also land the first woman in the

130
00:12:38,990 --> 00:12:37,800
first person of color on the surface of

131
00:12:41,090 --> 00:12:39,000
the Moon

132
00:12:44,030 --> 00:12:41,100
just an exciting mission that will pave

133
00:12:46,129 --> 00:12:44,040
the way for a sustainable presence on

134
00:12:47,990 --> 00:12:46,139
the moon and to prepare us to go to Mars

135
00:12:50,030 --> 00:12:48,000
which personally that's where I'm ready

136
00:12:51,829 --> 00:12:50,040
to go right who else is ready to go to

137
00:12:55,069 --> 00:12:51,839
Mars

138
00:12:58,190 --> 00:12:56,690

so we're doing this to increase our

139

00:13:01,009 --> 00:12:58,200

scientific knowledge

140

00:13:03,470 --> 00:13:01,019

to improve our national posture

141

00:13:05,329 --> 00:13:03,480

and to inspire future Generations

142

00:13:07,250 --> 00:13:05,339

that's you guys

143

00:13:09,530 --> 00:13:07,260

so all of you came here today as

144

00:13:11,449 --> 00:13:09,540

individual teams from your different

145

00:13:14,569 --> 00:13:11,459

schools different locations different

146

00:13:16,670 --> 00:13:14,579

states maybe even different countries

147

00:13:17,990 --> 00:13:16,680

but today you're now part of the Artemis

148

00:13:20,030 --> 00:13:18,000

generation

149

00:13:22,430 --> 00:13:20,040

and this is why we are doing what we're

150

00:13:23,629 --> 00:13:22,440

doing today we need you guys to keep

151
00:13:27,829 --> 00:13:23,639
working hard

152
00:13:29,150 --> 00:13:27,839
keep learning in school learning how to

153
00:13:30,829 --> 00:13:29,160
work in a team

154
00:13:32,750 --> 00:13:30,839
and work through the challenges that

155
00:13:35,509 --> 00:13:32,760
you're going to face is getting here

156
00:13:37,970 --> 00:13:35,519
today and what you may face today

157
00:13:40,310 --> 00:13:37,980
because we need you at NASA

158
00:13:43,490 --> 00:13:40,320
anybody want to come work for NASA

159
00:13:46,790 --> 00:13:43,500
ah awesome we need you our industry

160
00:13:48,769 --> 00:13:46,800
Partners need you we have a lot of big

161
00:13:51,170 --> 00:13:48,779
goals for the nation in deep space

162
00:13:52,250 --> 00:13:51,180
exploration and we need everybody to be

163
00:13:54,889 --> 00:13:52,260

a part of that

164

00:13:56,150 --> 00:13:54,899

so congratulations good luck on the

165

00:13:57,470 --> 00:13:56,160

launches I look forward to getting

166

00:13:59,030 --> 00:13:57,480

around and seeing some of the Rockets

167

00:14:00,949 --> 00:13:59,040

today

168

00:14:04,200 --> 00:14:00,959

and good luck let's go make some smoke

169

00:14:07,970 --> 00:14:06,530

[Applause]

170

00:14:11,090 --> 00:14:07,980

foreign

171

00:14:13,550 --> 00:14:11,100

thank you Mr Pelfrey next please welcome

172

00:14:15,350 --> 00:14:13,560

the director of NASA's office of stem

173

00:14:24,650 --> 00:14:15,360

engagement for the Southeastern United

174

00:14:28,920 --> 00:14:25,970

good morning

175

00:14:32,449 --> 00:14:28,930

who is ready to launch some Rockets

176

00:14:34,870 --> 00:14:32,459

[Applause]

177

00:14:38,269 --> 00:14:34,880

Hey listen this is our first full

178

00:14:43,069 --> 00:14:38,279

student launch full week of activity

179

00:14:45,350 --> 00:14:43,079

since covid in 2019 and you all are a

180

00:14:46,910 --> 00:14:45,360

part of that historic Resurgence of

181

00:14:49,490 --> 00:14:46,920

student launch and so you should give

182

00:14:52,069 --> 00:14:49,500

yourselves a big round of applause

183

00:15:00,069 --> 00:14:53,870

listen

184

00:15:03,110 --> 00:15:00,079

student launch this year some 1600

185

00:15:05,150 --> 00:15:03,120

participants uh and almost all of those

186

00:15:07,970 --> 00:15:05,160

teams that were eligible to be present

187

00:15:10,250 --> 00:15:07,980

with us today in launch are here and so

188

00:15:13,009 --> 00:15:10,260

we're excited about having you it's been

189

00:15:15,410 --> 00:15:13,019

nine months of hard work but you all

190

00:15:18,829 --> 00:15:15,420

made it and today is the day you've been

191

00:15:20,509 --> 00:15:18,839

waiting for this is launch day and so

192

00:15:22,009 --> 00:15:20,519

every rocket I need to tell you a little

193

00:15:24,350 --> 00:15:22,019

bit about some of the payloads for some

194

00:15:26,030 --> 00:15:24,360

of those who may not be aware of the

195

00:15:28,009 --> 00:15:26,040

hard work that this these teams have

196

00:15:30,470 --> 00:15:28,019

have put in to try to make this a

197

00:15:32,090 --> 00:15:30,480

reality every rocket contains a

198

00:15:34,250 --> 00:15:32,100

scientific payload

199

00:15:36,470 --> 00:15:34,260

all the university teams are flying a

200

00:15:40,069 --> 00:15:36,480

camera system that will after landing

201
00:15:42,410 --> 00:15:40,079
receive a list of commands that NASA via

202
00:15:44,810 --> 00:15:42,420
sends to it via radio waves

203
00:15:47,210 --> 00:15:44,820
and must execute these specific commands

204
00:15:49,730 --> 00:15:47,220
now several high school teams are also

205
00:15:51,769 --> 00:15:49,740
meeting that same payload Challenge and

206
00:15:54,410 --> 00:15:51,779
others are developing some of their own

207
00:15:56,750 --> 00:15:54,420
kind of custom payloads and so this is

208
00:15:58,730 --> 00:15:56,760
very technical stuff very challenging

209
00:16:02,269 --> 00:15:58,740
stuff and we're so proud of you all for

210
00:16:05,090 --> 00:16:02,279
making it all the way to be here today

211
00:16:07,610 --> 00:16:05,100
so the award ceremony will take place on

212
00:16:09,170 --> 00:16:07,620
June 6th so some of those of you all who

213
00:16:11,689 --> 00:16:09,180

are excited about finding out how great

214

00:16:13,790 --> 00:16:11,699

you did on June 6 is the day that we'll

215

00:16:15,889 --> 00:16:13,800

be unveiling the winners because we have

216

00:16:19,430 --> 00:16:15,899

some teams who are launching uh from

217

00:16:21,110 --> 00:16:19,440

home and so uh like like um Mr Pelfrey I

218

00:16:22,850 --> 00:16:21,120

want to also acknowledge some of our

219

00:16:24,829 --> 00:16:22,860

sponsors a couple additional sponsors

220

00:16:26,629 --> 00:16:24,839

that have been with us and so I think

221

00:16:29,810 --> 00:16:26,639

they all deserve a round of applause so

222

00:16:31,550 --> 00:16:29,820

let's first recognize Northrop Grumman

223

00:16:37,610 --> 00:16:31,560

for all of their hard work supporting us

224

00:16:41,449 --> 00:16:39,889

the National Space Club Huntsville has

225

00:16:49,430 --> 00:16:41,459

been a great partner of ours over the

226

00:16:53,689 --> 00:16:51,949

uh we have Nar the National Association

227

00:16:59,569 --> 00:16:53,699

of rocketry we can't do this without

228

00:17:07,069 --> 00:17:03,710

can't forget AIA the American Institute

229

00:17:12,829 --> 00:17:07,079

for of Aeronautics and astronautics

230

00:17:17,630 --> 00:17:14,750

got a couple of companies in town that

231

00:17:19,549 --> 00:17:17,640

come out and support and uh financially

232

00:17:26,289 --> 00:17:19,559

in other ways as well and so let's

233

00:17:34,130 --> 00:17:29,270

Bastion technology Technologies thank

234

00:17:42,529 --> 00:17:37,070

and Siemens uh digital software thank

235

00:17:46,070 --> 00:17:44,630

all right now

236

00:17:47,390 --> 00:17:46,080

this is a chance for you all to

237

00:17:48,890 --> 00:17:47,400

participate in getting the game a little

238

00:17:52,130 --> 00:17:48,900

bit here

239

00:17:54,590 --> 00:17:52,140

so yesterday at the uh rocket fair I was

240

00:17:56,750 --> 00:17:54,600

talking to a couple of teams and one of

241

00:17:58,190 --> 00:17:56,760

the teams told me they said hey I know

242

00:18:01,130 --> 00:17:58,200

there's going to be a lot of teams

243

00:18:04,130 --> 00:18:01,140

launching tomorrow but we are in volley

244

00:18:05,690 --> 00:18:04,140

one and this thing is going to be won in

245

00:18:07,070 --> 00:18:05,700

volley one so if you're in volley one

246

00:18:10,010 --> 00:18:07,080

let me hear you

247

00:18:10,020 --> 00:18:13,549

is that volley one

248

00:18:17,029 --> 00:18:15,470

the teams and I made my way through the

249

00:18:19,250 --> 00:18:17,039

rocket fair and I ran into some teams

250

00:18:21,289 --> 00:18:19,260

that said volley one is just a primer

251
00:18:23,510 --> 00:18:21,299
it's just a primer the real competition

252
00:18:25,930 --> 00:18:23,520
is going to be one in volley too if

253
00:18:28,310 --> 00:18:25,940
you're in volley two let me hear you

254
00:18:31,010 --> 00:18:28,320
[Applause]

255
00:18:35,390 --> 00:18:31,020
I don't know Joseph

256
00:18:37,130 --> 00:18:35,400
pretty strong all right now and then I

257
00:18:39,289 --> 00:18:37,140
kept walking my walking around I talked

258
00:18:42,289 --> 00:18:39,299
to a few other teams and they said one

259
00:18:44,750 --> 00:18:42,299
and two they are just the the appetizer

260
00:18:46,549 --> 00:18:44,760
the real meal and the competition is

261
00:18:48,529 --> 00:18:46,559
really going to be won in volley three

262
00:18:50,750 --> 00:18:48,539
if you're in volley three let me hear

263
00:18:55,250 --> 00:18:52,510

laughs

264

00:18:57,710 --> 00:18:55,260

all right Hey listen uh all three of the

265

00:18:59,450 --> 00:18:57,720

volleys are are super competitive we're

266

00:19:00,950 --> 00:18:59,460

excited about seeing you we're here

267

00:19:02,570 --> 00:19:00,960

early because we want to see all three

268

00:19:03,950 --> 00:19:02,580

of them and we're just so excited about

269

00:19:05,690 --> 00:19:03,960

all the hard work you guys have put in

270

00:19:11,690 --> 00:19:05,700

congratulations to you and let's launch

271

00:19:15,529 --> 00:19:13,610

thank you Mr McGaw

272

00:19:17,330 --> 00:19:15,539

Northrop Grumman has been a long time

273

00:19:19,190 --> 00:19:17,340

sponsor of NASA's student launch

274

00:19:21,470 --> 00:19:19,200

challenge here to share a few words

275

00:19:23,930 --> 00:19:21,480

please welcome Communications and media

276

00:19:28,010 --> 00:19:23,940

services manager at Northrop Grumman Mrs

277

00:19:33,590 --> 00:19:31,130

thank you hi everybody and welcome to

278

00:19:35,870 --> 00:19:33,600

launch day I'm so excited and was it

279

00:19:38,690 --> 00:19:35,880

Kevin that said a Resurgence of student

280

00:19:40,909 --> 00:19:38,700

launch I love that it's been a long dry

281

00:19:43,430 --> 00:19:40,919

spell not having this to happen every

282

00:19:44,570 --> 00:19:43,440

year it's our favorite event in Northrop

283

00:19:47,510 --> 00:19:44,580

Grumman

284

00:19:50,450 --> 00:19:47,520

I want to thank Chris and Jeannie Harvey

285

00:19:52,310 --> 00:19:50,460

and their children Josie and Wesley the

286

00:19:53,990 --> 00:19:52,320

Harvey's graciously allow us to come

287

00:19:56,090 --> 00:19:54,000

onto their property and launch rockets

288

00:20:02,330 --> 00:19:56,100

every year we gave them a round of

289

00:20:06,470 --> 00:20:04,250

it's hard for me when my family comes

290

00:20:07,430 --> 00:20:06,480

over let alone you all so it's a pretty

291

00:20:10,310 --> 00:20:07,440

big deal

292

00:20:12,110 --> 00:20:10,320

okay at Northrop Grumman our customer

293

00:20:13,970 --> 00:20:12,120

for the solid rocket boosters we

294

00:20:16,190 --> 00:20:13,980

manufacture for NASA's space launch

295

00:20:17,870 --> 00:20:16,200

system rocket which as you know launched

296

00:20:20,630 --> 00:20:17,880

in November for the first time on the

297

00:20:21,890 --> 00:20:20,640

Artemis 1 mission is NASA Marshall space

298

00:20:23,990 --> 00:20:21,900

flight center

299

00:20:26,810 --> 00:20:24,000

we greatly enjoy our partnership with

300

00:20:29,450 --> 00:20:26,820

NASA and appreciate working with them to

301

00:20:31,610 --> 00:20:29,460

sponsor this event in their backyard

302

00:20:33,350 --> 00:20:31,620

now I'm happy now to introduce a special

303

00:20:35,270 --> 00:20:33,360

guest we're excited to have here today

304

00:20:36,710 --> 00:20:35,280

some of you had the chance to talk with

305

00:20:39,110 --> 00:20:36,720

her last night

306

00:20:41,090 --> 00:20:39,120

Dr Jan Davis was born in Cocoa Beach

307

00:20:43,250 --> 00:20:41,100

Florida and graduated from high school

308

00:20:45,350 --> 00:20:43,260

in Huntsville Alabama and later

309

00:20:49,070 --> 00:20:45,360

graduated from the Georgia Institute of

310

00:20:51,710 --> 00:20:49,080

Technology and then Auburn University

311

00:20:55,610 --> 00:20:53,690

if that wasn't enough she also earned a

312

00:20:57,350 --> 00:20:55,620

master of science degree and then a

313

00:20:58,909 --> 00:20:57,360

doctorate from the University of Alabama

314

00:21:01,730 --> 00:20:58,919

in Huntsville

315

00:21:04,610 --> 00:21:01,740

are they are they out on the pad

316

00:21:07,190 --> 00:21:04,620

okay Jan worked as an aerospace engineer

317

00:21:09,409 --> 00:21:07,200

she has earned numerous Awards and she

318

00:21:12,650 --> 00:21:09,419

was selected to be a NASA astronaut in

319

00:21:14,990 --> 00:21:12,660

1987. she served as Capcom and Mission

320

00:21:17,090 --> 00:21:15,000

Control communicating with space shuttle

321

00:21:18,830 --> 00:21:17,100

astronauts during seven missions and

322

00:21:19,850 --> 00:21:18,840

then she flew on three space shuttle

323

00:21:22,730 --> 00:21:19,860

missions

324

00:21:26,210 --> 00:21:22,740

Jan flew is a mission specialist on STS

325

00:21:29,990 --> 00:21:26,220

47 and sts-60 and was the payload

326

00:21:32,510 --> 00:21:30,000

commander on sts-85 in 1997.

327

00:21:34,850 --> 00:21:32,520

last but not least Jan is the founding

328

00:21:37,250 --> 00:21:34,860

member of Astra femina a non-profit

329

00:21:39,409 --> 00:21:37,260

organization that promotes science

330

00:21:40,250 --> 00:21:39,419

technology and math for girls and young

331

00:21:52,190 --> 00:21:40,260

women

332

00:21:57,169 --> 00:21:54,830

thank you Kay and welcome to Huntsville

333

00:22:00,289 --> 00:21:57,179

everyone and we're ready to see some

334

00:22:02,570 --> 00:22:00,299

Rockets launch today thank you so much

335

00:22:05,630 --> 00:22:02,580

for being here all of your hard work and

336

00:22:07,669 --> 00:22:05,640

coming here today and remember and you

337

00:22:10,010 --> 00:22:07,679

may have already learned this you can

338

00:22:12,409 --> 00:22:10,020

learn as much from your failures as your

339

00:22:15,190 --> 00:22:12,419

successes have some of you had failures

340

00:22:19,490 --> 00:22:15,200

in testing your Rockets up to today

341

00:22:22,490 --> 00:22:19,500

yeah oh yeah so just remember if things

342

00:22:24,409 --> 00:22:22,500

don't go right today you are all winners

343

00:22:26,270 --> 00:22:24,419

no matter how things come out and you

344

00:22:27,950 --> 00:22:26,280

will learn a lot no matter no matter

345

00:22:30,649 --> 00:22:27,960

what happens

346

00:22:32,750 --> 00:22:30,659

you are learning a lot more than just

347

00:22:34,970 --> 00:22:32,760

about rockets and how to launch rockets

348

00:22:37,010 --> 00:22:34,980

you're learning about teamwork you

349

00:22:39,289 --> 00:22:37,020

learning about communication you're

350

00:22:40,970 --> 00:22:39,299

learning about hard work you're learning

351
00:22:43,270 --> 00:22:40,980
about you know how you overcome your

352
00:22:46,610 --> 00:22:43,280
Affairs and and succeed

353
00:22:48,470 --> 00:22:46,620
perseverance determination those are all

354
00:22:50,870 --> 00:22:48,480
really important lessons for whatever

355
00:22:53,510 --> 00:22:50,880
you do in life

356
00:22:56,750 --> 00:22:53,520
I think one of the most important

357
00:22:58,850 --> 00:22:56,760
quality of astronauts is teamwork people

358
00:23:01,070 --> 00:22:58,860
ask me how do I become an astronaut what

359
00:23:02,630 --> 00:23:01,080
do I need to do you need to learn to

360
00:23:04,610 --> 00:23:02,640
work with people and you need to learn

361
00:23:06,590 --> 00:23:04,620
to work with a team and you're learning

362
00:23:09,649 --> 00:23:06,600
that in the efforts that brought you

363
00:23:12,110 --> 00:23:09,659

here today so that's fantastic another

364

00:23:13,850 --> 00:23:12,120

thing that's important I was a

365

00:23:15,590 --> 00:23:13,860

at Auburn a couple of days ago

366

00:23:17,090 --> 00:23:15,600

installing their president and talking

367

00:23:19,430 --> 00:23:17,100

to one of the department heads in

368

00:23:21,830 --> 00:23:19,440

engineering and he said you know

369

00:23:23,810 --> 00:23:21,840

students coming in these days they don't

370

00:23:26,149 --> 00:23:23,820

know how to operate tools or have

371

00:23:28,370 --> 00:23:26,159

hands-on experience or you know the

372

00:23:31,610 --> 00:23:28,380

difference in a Phillips head and a slot

373

00:23:33,409 --> 00:23:31,620

you know screwdriver I'm like really and

374

00:23:36,529 --> 00:23:33,419

they said yeah because of the digital in

375

00:23:38,690 --> 00:23:36,539

you know information is all they know so

376

00:23:42,529 --> 00:23:38,700

I think it's great that you all are

377

00:23:44,870 --> 00:23:42,539

getting this hands-on experience on how

378

00:23:46,610 --> 00:23:44,880

to handle Hardware that will help you

379

00:23:48,950 --> 00:23:46,620

with whatever job you want to do

380

00:23:52,549 --> 00:23:48,960

whatever whatever you want to do in

381

00:23:56,870 --> 00:23:55,490

I grew up here in Huntsville among these

382

00:23:59,750 --> 00:23:56,880

Hills

383

00:24:02,570 --> 00:23:59,760

and I grew up in the Saturn five days

384

00:24:03,950 --> 00:24:02,580

when we were testing the engines right

385

00:24:06,710 --> 00:24:03,960

here in Huntsville

386

00:24:08,810 --> 00:24:06,720

and the whole town would shake and

387

00:24:11,390 --> 00:24:08,820

sometimes Windows would break

388

00:24:13,370 --> 00:24:11,400

so it was a great time to grow up in

389

00:24:15,470 --> 00:24:13,380

Huntsville and it provided me

390

00:24:17,510 --> 00:24:15,480

inspiration to go into engineering and

391

00:24:19,370 --> 00:24:17,520

to become an astronaut

392

00:24:22,310 --> 00:24:19,380

and you know what

393

00:24:25,130 --> 00:24:22,320

you are inspiring the Next Generation

394

00:24:28,070 --> 00:24:25,140

and you are the Artemis generation and

395

00:24:29,029 --> 00:24:28,080

everyone is looking to you to carry us

396

00:24:30,830 --> 00:24:29,039

forward

397

00:24:33,350 --> 00:24:30,840

our country's looking to you our

398

00:24:36,649 --> 00:24:33,360

industry is looking to you and I'm very

399

00:24:39,230 --> 00:24:36,659

excited to be here today to see you and

400

00:24:41,870 --> 00:24:39,240

to talk with you because you are our

401

00:24:46,130 --> 00:24:41,880

future in order to keep our nation at

402

00:24:51,169 --> 00:24:48,110

well I flew on three space shuttle

403

00:24:53,810 --> 00:24:51,179

missions I worked hard in my education

404

00:24:57,049 --> 00:24:53,820

and I encourage you to continue your

405

00:24:58,549 --> 00:24:57,059

education and work hard to finish your

406

00:25:01,549 --> 00:24:58,559

degrees

407

00:25:02,750 --> 00:25:01,559

but I didn't make it the first time I

408

00:25:05,390 --> 00:25:02,760

tried

409

00:25:07,970 --> 00:25:05,400

I had failures along the way I had

410

00:25:10,669 --> 00:25:07,980

things that I had to overcome I didn't

411

00:25:13,310 --> 00:25:10,679

make it till the third try

412

00:25:16,430 --> 00:25:13,320

so if you don't always reach a goal the

413

00:25:18,649 --> 00:25:16,440

first time just keep trying keep at it

414

00:25:21,890 --> 00:25:18,659

do what you need to do to make it happen

415

00:25:25,549 --> 00:25:21,900

to make that dream come true don't let

416

00:25:27,350 --> 00:25:25,559

anybody tell you you can't do something

417

00:25:29,090 --> 00:25:27,360

people told me I couldn't become an

418

00:25:31,430 --> 00:25:29,100

astronaut people told me I couldn't go

419

00:25:33,950 --> 00:25:31,440

to Georgia Tech it was a man's School

420

00:25:36,590 --> 00:25:33,960

but I didn't listen to them if you have

421

00:25:40,850 --> 00:25:36,600

a goal and if you have a dream do what

422

00:25:43,669 --> 00:25:40,860

it takes to make that dream come true

423

00:25:46,370 --> 00:25:43,679

so congratulations again

424

00:25:49,010 --> 00:25:46,380

I want to make sure you also know that

425

00:25:51,169 --> 00:25:49,020

you need to thank the people around you

426

00:25:54,350 --> 00:25:51,179

that's one thing I didn't do enough of

427

00:25:57,409 --> 00:25:54,360

growing up thank your teachers your

428

00:25:59,570 --> 00:25:57,419

parents your mentors your sponsors your

429

00:26:02,330 --> 00:25:59,580

coaches all the people that made it

430

00:26:04,310 --> 00:26:02,340

possible for you to be here today

431

00:26:07,310 --> 00:26:04,320

I would like to thank Northrop Grumman

432

00:26:09,710 --> 00:26:07,320

for bringing me here today and the brags

433

00:26:12,169 --> 00:26:09,720

for letting us use their Farm

434

00:26:13,909 --> 00:26:12,179

so I really appreciate meeting you I

435

00:26:16,730 --> 00:26:13,919

hope to see you and talk with more of

436

00:26:19,610 --> 00:26:16,740

you during the day best wishes for your

437

00:26:22,270 --> 00:26:19,620

launch and let's go for launch

438

00:26:25,070 --> 00:26:22,280

foreign

439

00:26:28,610 --> 00:26:25,080

[Music]

440

00:26:30,769 --> 00:26:28,620

thank you Dr Davis at this time let's

441

00:26:32,269 --> 00:26:30,779

recognize each of our sponsors again but

442

00:26:35,090 --> 00:26:32,279

please save your whole hold your

443

00:26:38,029 --> 00:26:35,100

applause Until the End Northrop Grumman

444

00:26:41,029 --> 00:26:38,039

National Space Club Huntsville

445

00:26:44,269 --> 00:26:41,039

American Institute of Aeronautics and

446

00:26:45,470 --> 00:26:44,279

astronautics National Association of

447

00:26:47,330 --> 00:26:45,480

rocketry

448

00:26:50,930 --> 00:26:47,340

relativity space

449

00:26:53,630 --> 00:26:50,940

Bastion Technology Incorporated Siemens

450

00:26:55,850 --> 00:26:53,640

digital industry software please give a

451
00:27:02,510 --> 00:26:55,860
round of applause for everyone making

452
00:27:07,070 --> 00:27:04,850
finally please give your undivided

453
00:27:09,830 --> 00:27:07,080
attention to Mr John lingdal with the

454
00:27:20,570 --> 00:27:09,840
National Association of rocketry for the

455
00:27:26,570 --> 00:27:24,130
we will come back to that part

456
00:27:28,310 --> 00:27:26,580
during the launch volleys you're going

457
00:27:30,890 --> 00:27:28,320
to direct your attention to the PA

458
00:27:33,230 --> 00:27:30,900
systems Mr Gerald Mew with the National

459
00:27:35,690 --> 00:27:33,240
Association of rocketry and this year's

460
00:27:38,210 --> 00:27:35,700
launch control officer is going to

461
00:27:41,029 --> 00:27:38,220
announce each launch

462
00:27:43,250 --> 00:27:41,039
on behalf of NASA thank you for joining

463
00:27:45,590 --> 00:27:43,260

us today and we wish the best of luck to

464

00:27:47,810 --> 00:27:45,600

all teams we will now prepare for the

465

00:28:00,470 --> 00:27:47,820

first volley of launches this concludes

466

00:28:03,830 --> 00:28:02,330

Lynn it's always great to hear from our

467

00:28:06,110 --> 00:28:03,840

NASA leadership and from our sponsors

468

00:28:07,669 --> 00:28:06,120

that that put in all this hard work and

469

00:28:10,130 --> 00:28:07,679

invest in all this in our Artemis

470

00:28:11,630 --> 00:28:10,140

generation so that we can make Artemis

471

00:28:14,330 --> 00:28:11,640

student challenges like NASA student

472

00:28:15,890 --> 00:28:14,340

launch possible now out here behind us

473

00:28:17,690 --> 00:28:15,900

we're looking at the rails and teams are

474

00:28:19,430 --> 00:28:17,700

getting their Rockets ready their army

475

00:28:20,810 --> 00:28:19,440

pyrotechnics are turning on electronics

476
00:28:23,149 --> 00:28:20,820
they're getting ready to watch so we're

477
00:28:25,070 --> 00:28:23,159
not quite there yet but we do get to

478
00:28:27,409 --> 00:28:25,080
start one of my favorite Parts team

479
00:28:29,269 --> 00:28:27,419
interviews yes absolutely so Lane we've

480
00:28:31,130 --> 00:28:29,279
got a really cool team coming in I'm

481
00:28:33,350 --> 00:28:31,140
going to let you take over the role here

482
00:28:35,390 --> 00:28:33,360
so let's bring in

483
00:28:37,970 --> 00:28:35,400
um our first team yeah so here we have

484
00:28:38,810 --> 00:28:37,980
Auburn University Hi how are you pretty

485
00:28:40,130 --> 00:28:38,820
good

486
00:28:42,590 --> 00:28:40,140
um please introduce yourself and tell us

487
00:28:44,450 --> 00:28:42,600
your major my name is preet I'm the

488
00:28:46,909 --> 00:28:44,460

president and I'm a senior in aerospace

489

00:28:48,470 --> 00:28:46,919

engineering at Auburn okay awesome so I

490

00:28:50,330 --> 00:28:48,480

hear that you guys have a kind of a

491

00:28:51,649 --> 00:28:50,340

special story behind the design and the

492

00:28:53,750 --> 00:28:51,659

look of your rocket can you tell me a

493

00:28:56,269 --> 00:28:53,760

little bit more about that so this year

494

00:28:59,090 --> 00:28:56,279

our rocket was painted by the children's

495

00:29:00,409 --> 00:28:59,100

of Alabama hospital patients uh it was

496

00:29:02,870 --> 00:29:00,419

one of the most rewarding experience

497

00:29:05,210 --> 00:29:02,880

chances everyone on the team has ever

498

00:29:08,029 --> 00:29:05,220

had we went down we went up to

499

00:29:10,250 --> 00:29:08,039

Birmingham uh to get their rocket get

500

00:29:11,690 --> 00:29:10,260

our rocket painted by them uh the kids

501
00:29:13,870 --> 00:29:11,700
were happy they were having a fun time

502
00:29:17,090 --> 00:29:13,880
we were having a funner time than them

503
00:29:20,230 --> 00:29:17,100
uh just brings us back to our childhood

504
00:29:23,330 --> 00:29:20,240
when back when we were discoloring

505
00:29:25,269 --> 00:29:23,340
out of line in line doesn't matter what

506
00:29:27,950 --> 00:29:25,279
yeah it was it was a pretty good design

507
00:29:29,690 --> 00:29:27,960
uh it looks like it's painted by kids

508
00:29:31,430 --> 00:29:29,700
because it is painted by kids yeah

509
00:29:33,049 --> 00:29:31,440
absolutely that's so incredible thank

510
00:29:35,230 --> 00:29:33,059
you for sharing that with us so how's

511
00:29:37,430 --> 00:29:35,240
the team feeling today excited nervous

512
00:29:39,049 --> 00:29:37,440
nervous and excited we are very

513
00:29:42,169 --> 00:29:39,059

confident we have had a couple of

514

00:29:43,730 --> 00:29:42,179

successful launches so uh hopefully we

515

00:29:46,549 --> 00:29:43,740

have one today the weather's looking

516

00:29:49,010 --> 00:29:46,559

nice for now so hope I hope it holds up

517

00:29:50,330 --> 00:29:49,020

by the time we launch yeah absolutely so

518

00:29:52,970 --> 00:29:50,340

can you tell me did you guys face any

519

00:29:56,269 --> 00:29:52,980

challenges or difficulties this year uh

520

00:29:59,450 --> 00:29:56,279

we did we uh for our first full scale

521

00:30:02,389 --> 00:29:59,460

launch uh we launched our rocket and it

522

00:30:03,950 --> 00:30:02,399

ended up in a power line uh it was we

523

00:30:05,810 --> 00:30:03,960

called it a powered Landing but we have

524

00:30:08,389 --> 00:30:05,820

to we had to call Alabama power to get

525

00:30:11,510 --> 00:30:08,399

our rocket down uh we had a week to

526

00:30:13,549 --> 00:30:11,520

reconstruct the rocket because uh the

527

00:30:14,870 --> 00:30:13,559

week after we were going to uh to

528

00:30:16,909 --> 00:30:14,880

Children's of Alabama to get a rocket

529

00:30:19,549 --> 00:30:16,919

paint and we needed a tested rocket to

530

00:30:20,930 --> 00:30:19,559

for them to paint yeah wow so do you

531

00:30:22,430 --> 00:30:20,940

guys have anyone you want to thank back

532

00:30:24,230 --> 00:30:22,440

home or any mentors that helped you

533

00:30:26,149 --> 00:30:24,240

throughout this process we'd like to

534

00:30:28,730 --> 00:30:26,159

thank Auburn University our Mentor Dr

535

00:30:31,190 --> 00:30:28,740

Elden Triggs and our corporate sponsors

536

00:30:33,230 --> 00:30:31,200

Alabama Space Grand constronium Lockheed

537

00:30:34,909 --> 00:30:33,240

Martin torch Technologies and teradyne

538

00:30:36,409 --> 00:30:34,919

brown Technologies all right awesome

539

00:30:38,090 --> 00:30:36,419

well best of luck today thank you so

540

00:30:39,529 --> 00:30:38,100

much for talking with us

541

00:30:40,789 --> 00:30:39,539

yeah

542

00:30:42,350 --> 00:30:40,799

all right I think we have some other

543

00:30:43,789 --> 00:30:42,360

teams coming to interview with Will so

544

00:30:46,010 --> 00:30:43,799

I'm going to toss it over to him yeah

545

00:30:48,769 --> 00:30:46,020

absolutely we're going to bring in North

546

00:30:51,230 --> 00:30:48,779

Carolina State University Meredith is

547

00:30:53,029 --> 00:30:51,240

here with us North Carolina State a team

548

00:30:56,090 --> 00:30:53,039

that has been coming to student launch

549

00:30:57,710 --> 00:30:56,100

for many years and I understand go in

550

00:30:59,389 --> 00:30:57,720

time in with the Artemis missions that

551
00:31:01,010 --> 00:30:59,399
you guys have a very special alumni

552
00:31:03,409 --> 00:31:01,020
who's going to be making a really cool

553
00:31:06,710 --> 00:31:03,419
flight here shortly tell us about that

554
00:31:09,350 --> 00:31:06,720
yeah so uh Christina Koch is about to go

555
00:31:12,169 --> 00:31:09,360
on Artemis 2 and be the first woman to

556
00:31:14,090 --> 00:31:12,179
orbit the Moon which will be awesome and

557
00:31:16,970 --> 00:31:14,100
she graduated from NC State in

558
00:31:19,010 --> 00:31:16,980
electrical engineering and so our team

559
00:31:22,250 --> 00:31:19,020
gets a lot of inspiration from her she's

560
00:31:23,450 --> 00:31:22,260
signed a couple of our Rockets So we

561
00:31:25,970 --> 00:31:23,460
love to be able to see her and we're

562
00:31:28,430 --> 00:31:25,980
really excited to cheer her on anonymous

563
00:31:29,630 --> 00:31:28,440

so an Artemis astronaut inspiring is the

564

00:31:31,010 --> 00:31:29,640

Artemis generation now let's bring

565

00:31:32,990 --> 00:31:31,020

everything a little bit closer to home

566

00:31:35,389 --> 00:31:33,000

your rocket is getting ready to fly

567

00:31:36,889 --> 00:31:35,399

what's going through your mind as you're

568

00:31:39,950 --> 00:31:36,899

getting ready to fly

569

00:31:42,289 --> 00:31:39,960

um definitely nervous excited we have a

570

00:31:43,909 --> 00:31:42,299

lot to get done a lot to um make sure

571

00:31:45,769 --> 00:31:43,919

this rocket is perfect to go in the air

572

00:31:47,570 --> 00:31:45,779

and we all really care about it so much

573

00:31:49,250 --> 00:31:47,580

so yeah we're a little we're a little

574

00:31:50,870 --> 00:31:49,260

stressed but excited

575

00:31:52,070 --> 00:31:50,880

stress but excite is always a good way

576
00:31:54,110 --> 00:31:52,080
to be now one of the things we haven't

577
00:31:55,909 --> 00:31:54,120
touched on yet is payloads this year we

578
00:31:57,649 --> 00:31:55,919
have a really well I think it's a really

579
00:32:01,430 --> 00:31:57,659
cool payload challenge how do you guys

580
00:32:02,389 --> 00:32:01,440
tackle this camera receiving signals

581
00:32:06,889 --> 00:32:02,399
challenge

582
00:32:12,169 --> 00:32:09,529
um with the cameras right in between the

583
00:32:14,149 --> 00:32:12,179
fins so whichever orientation the launch

584
00:32:15,830 --> 00:32:14,159
vehicle lands in then we'll always have

585
00:32:17,570 --> 00:32:15,840
one camera up and we just use

586
00:32:19,490 --> 00:32:17,580
Electronics to determine which one of

587
00:32:21,529 --> 00:32:19,500
those cameras is up and to complete the

588
00:32:25,310 --> 00:32:21,539

challenge and take in the radio signals

589

00:32:28,310 --> 00:32:25,320

via VIA antennas that are on the outside

590

00:32:30,830 --> 00:32:28,320

of our rocket so yeah and um this year

591

00:32:31,970 --> 00:32:30,840

we had a ton of challenges with that

592

00:32:33,889 --> 00:32:31,980

because

593

00:32:37,250 --> 00:32:33,899

um about a week and a half ago our

594

00:32:38,269 --> 00:32:37,260

entire rocket exploded pretty much we

595

00:32:41,029 --> 00:32:38,279

had

596

00:32:42,529 --> 00:32:41,039

um a test launch just for the payload we

597

00:32:44,690 --> 00:32:42,539

had already had a successful launch that

598

00:32:48,070 --> 00:32:44,700

was nearly perfect before then

599

00:32:51,889 --> 00:32:48,080

um and then that launch we had a motor

600

00:32:54,350 --> 00:32:51,899

manufacturer air the motor exploded and

601
00:32:56,570 --> 00:32:54,360
shot through our payload Bay destroying

602
00:32:58,130 --> 00:32:56,580
all the work that we had done

603
00:33:00,769 --> 00:32:58,140
um but I'm really proud to say that our

604
00:33:02,330 --> 00:33:00,779
team has enough of removable components

605
00:33:05,149 --> 00:33:02,340
and replaceable components that we were

606
00:33:07,490 --> 00:33:05,159
able to rebuild the payload and any

607
00:33:11,570 --> 00:33:07,500
damaged parts of the Rockets in 10 days

608
00:33:13,730 --> 00:33:11,580
so um uh the so the payload is about up

609
00:33:16,370 --> 00:33:13,740
back up to 75 percent

610
00:33:17,990 --> 00:33:16,380
um uh use and uh we're really hoping

611
00:33:20,090 --> 00:33:18,000
that it goes well today just because we

612
00:33:22,370 --> 00:33:20,100
put so much work into that so

613
00:33:24,110 --> 00:33:22,380

talk about overcoming adversity now I

614

00:33:28,190 --> 00:33:24,120

understand you guys had to chase down a

615

00:33:31,250 --> 00:33:28,200

part last night too yes so um we in the

616

00:33:34,490 --> 00:33:33,049

at a component of our motor back at home

617

00:33:36,350 --> 00:33:34,500

and it was very important because

618

00:33:37,430 --> 00:33:36,360

obviously the motors went sense the

619

00:33:41,330 --> 00:33:37,440

rocket up

620

00:33:44,450 --> 00:33:41,340

um and uh we were going about to drive

621

00:33:46,130 --> 00:33:44,460

to Atlanta to a motor supplier who had

622

00:33:48,169 --> 00:33:46,140

uh the piece that we needed so about

623

00:33:50,509 --> 00:33:48,179

three of our members hopped in the van

624

00:33:53,149 --> 00:33:50,519

and were ready to drive eight hours

625

00:33:55,970 --> 00:33:53,159

yesterday and Oregon State University

626
00:33:58,730 --> 00:33:55,980
big shout out to them uh saved us and

627
00:34:01,370 --> 00:33:58,740
they had an extra of that piece for our

628
00:34:03,409 --> 00:34:01,380
motor and they lent it to us uh so that

629
00:34:04,250 --> 00:34:03,419
was really great so I was very scared

630
00:34:05,570 --> 00:34:04,260
yesterday we weren't going to be

631
00:34:07,250 --> 00:34:05,580
launching so I'm really happy that we're

632
00:34:08,690 --> 00:34:07,260
launching today what's so awesome and

633
00:34:09,950 --> 00:34:08,700
it's so cool to see the camaraderie

634
00:34:11,450 --> 00:34:09,960
about the teams I know there's a

635
00:34:12,950 --> 00:34:11,460
competition going on in their awards

636
00:34:15,050 --> 00:34:12,960
that we'll be getting out later but it

637
00:34:17,030 --> 00:34:15,060
seems like you guys kind of have a real

638
00:34:21,290 --> 00:34:17,040

camaraderie out here in our pits area

639

00:34:22,730 --> 00:34:21,300

yeah yeah yeah our team really has loves

640

00:34:25,490 --> 00:34:22,740

being here and loves this competition

641

00:34:26,930 --> 00:34:25,500

everybody contributes so much so we get

642

00:34:29,750 --> 00:34:26,940

a lot out of being able to do this

643

00:34:31,849 --> 00:34:29,760

together we also all really Bond about

644

00:34:33,589 --> 00:34:31,859

our love of space no matter what major

645

00:34:36,710 --> 00:34:33,599

that we're in

646

00:34:39,050 --> 00:34:36,720

um and uh yeah this year we we really

647

00:34:41,889 --> 00:34:39,060

have taught each other a lot and I get

648

00:34:44,149 --> 00:34:41,899

to brag that our team has had 15

649

00:34:46,849 --> 00:34:44,159

certifications with Tripoli rocketry

650

00:34:48,649 --> 00:34:46,859

Association just this year alone which

651

00:34:50,930 --> 00:34:48,659

just shows our ability to help each

652

00:34:52,609 --> 00:34:50,940

other out and send on knowledge so yeah

653

00:34:53,750 --> 00:34:52,619

what so awesome now one last question

654

00:34:55,970 --> 00:34:53,760

for you I'm gonna let you get back to

655

00:34:57,890 --> 00:34:55,980

your team anybody back home any sponsors

656

00:35:01,190 --> 00:34:57,900

any professors any anybody you want to

657

00:35:04,010 --> 00:35:01,200

say hi to yeah so um I want to thank our

658

00:35:06,050 --> 00:35:04,020

mentors Alan Jim and Joe who are part of

659

00:35:07,609 --> 00:35:06,060

Tripoli rocketry Association in eastern

660

00:35:09,710 --> 00:35:07,619

North Carolina

661

00:35:11,930 --> 00:35:09,720

um and yeah we want to thank our two

662

00:35:15,710 --> 00:35:11,940

members who weren't able to make it well

663

00:35:18,589 --> 00:35:15,720

three members Joseph Trent and Emma and

664

00:35:21,290 --> 00:35:18,599

I'd also like to thank my thank my dog

665

00:35:22,670 --> 00:35:21,300

Chewie for always supporting me those

666

00:35:24,530 --> 00:35:22,680

four-legged friends are always the most

667

00:35:26,569 --> 00:35:24,540

important my dog's my best friend so I

668

00:35:28,010 --> 00:35:26,579

can fully get Meredith thank you so much

669

00:35:29,930 --> 00:35:28,020

for coming out we wish you the best of

670

00:35:31,730 --> 00:35:29,940

luck truly overcoming adversity and

671

00:35:33,410 --> 00:35:31,740

showing that there's space for everyone

672

00:35:35,329 --> 00:35:33,420

and there's camaraderie in the space

673

00:35:37,310 --> 00:35:35,339

program best of luck to NC State we'll

674

00:35:38,089 --> 00:35:37,320

see you fly here shortly thank you go

675

00:35:40,130 --> 00:35:38,099

back

676
00:35:42,410 --> 00:35:40,140
we're gonna be bringing in another team

677
00:35:43,910 --> 00:35:42,420
I'm gonna bring Lane back in we're going

678
00:35:46,190 --> 00:35:43,920
to interview Lynn who do we have coming

679
00:35:48,050 --> 00:35:46,200
in joining us now so we have um our

680
00:35:49,849 --> 00:35:48,060
local team University of Alabama in

681
00:35:51,829 --> 00:35:49,859
Huntsville joining us so we're super

682
00:35:53,510 --> 00:35:51,839
excited hi there can you introduce

683
00:35:55,250 --> 00:35:53,520
yourself and tell us your major sure my

684
00:35:56,630 --> 00:35:55,260
name is Ethan Walker Jones I'm a senior

685
00:35:58,609 --> 00:35:56,640
aerospace engineer at the University of

686
00:35:59,930 --> 00:35:58,619
Alabama Huntsville okay awesome so tell

687
00:36:01,730 --> 00:35:59,940
me how are you guys feeling today what's

688
00:36:03,230 --> 00:36:01,740

the energy like in the team we're super

689

00:36:05,630 --> 00:36:03,240

excited you know we put in a lot of work

690

00:36:07,430 --> 00:36:05,640

the past nine months and we've followed

691

00:36:09,290 --> 00:36:07,440

all our operation procedures and so we

692

00:36:10,849 --> 00:36:09,300

think it's going to work perfectly a

693

00:36:12,829 --> 00:36:10,859

little nervous obviously I don't think

694

00:36:14,930 --> 00:36:12,839

anyone isn't but really excited to see

695

00:36:16,550 --> 00:36:14,940

it come off yeah absolutely so tell me

696

00:36:18,290 --> 00:36:16,560

did you guys face any particular

697

00:36:19,910 --> 00:36:18,300

challenges or difficulties this year

698

00:36:21,890 --> 00:36:19,920

yeah I think you know all teams here

699

00:36:23,510 --> 00:36:21,900

will say they face challenges our

700

00:36:25,310 --> 00:36:23,520

recovery system it's pretty complicated

701

00:36:27,650 --> 00:36:25,320

and so we had some issues with our

702

00:36:29,270 --> 00:36:27,660

parachute opening at apogee but finally

703

00:36:31,609 --> 00:36:29,280

in our third full-scale flight we got it

704

00:36:33,410 --> 00:36:31,619

to open at 600 feet when we wanted it to

705

00:36:35,150 --> 00:36:33,420

so we were all super excited when that

706

00:36:36,950 --> 00:36:35,160

happened although it ended up Landing in

707

00:36:38,870 --> 00:36:36,960

trees above a swamp so we had to go

708

00:36:41,030 --> 00:36:38,880

waiting in the swamp among the

709

00:36:42,710 --> 00:36:41,040

alligators and snakes but we managed to

710

00:36:44,630 --> 00:36:42,720

get our rocket back and it's on the pad

711

00:36:46,010 --> 00:36:44,640

there today yeah so where do you guys

712

00:36:47,810 --> 00:36:46,020

normally launch from when you're

713

00:36:49,849 --> 00:36:47,820

practicing yeah so we have a local field

714

00:36:51,829 --> 00:36:49,859

here in Huntsville with Hara but we've

715

00:36:54,470 --> 00:36:51,839

we've also gone down to Samson Alabama

716

00:36:56,930 --> 00:36:54,480

and up to Elizabethtown and Hopkinsville

717

00:37:00,470 --> 00:36:58,490

hi me do you guys have like a particular

718

00:37:02,810 --> 00:37:00,480

name for your rocket do you guys do that

719

00:37:03,829 --> 00:37:02,820

or our name for our rocket this year is

720

00:37:05,930 --> 00:37:03,839

Argo

721

00:37:08,210 --> 00:37:05,940

our team mentors Jason and Jason was the

722

00:37:09,890 --> 00:37:08,220

captain of the Argo and the the miss so

723

00:37:11,870 --> 00:37:09,900

okay so tell me the reasoning behind the

724

00:37:14,089 --> 00:37:11,880

name I we couldn't come up with anything

725

00:37:16,069 --> 00:37:14,099

so that was the best idea that we had uh

726

00:37:17,870 --> 00:37:16,079

and the team liked it and so our payload

727

00:37:19,849 --> 00:37:17,880

is called The Argonaut so it is flying

728

00:37:21,230 --> 00:37:19,859

on the Argo okay so how big is your team

729

00:37:23,030 --> 00:37:21,240

how many people are on the team so we

730

00:37:24,950 --> 00:37:23,040

have 24 members we're a senior design

731

00:37:26,329 --> 00:37:24,960

team so we're all Senior Aerospace and

732

00:37:27,710 --> 00:37:26,339

mechanical engineers

733

00:37:29,870 --> 00:37:27,720

um so we're all about to graduate so

734

00:37:31,730 --> 00:37:29,880

okay awesome well is there anyone you

735

00:37:33,530 --> 00:37:31,740

want to thank back home any sponsors or

736

00:37:35,510 --> 00:37:33,540

mentors sure yeah I'd love to thank our

737

00:37:37,310 --> 00:37:35,520

professor Dr Limeberry and our Mentor

738

00:37:39,950 --> 00:37:37,320

Jason Winningham as well as all our

739

00:37:42,109 --> 00:37:39,960

sponsors Jacobs uh Mission driven

740

00:37:44,030 --> 00:37:42,119

research Alma spray space Grant space

741

00:37:46,250 --> 00:37:44,040

Club all those have really helped us out

742

00:37:48,109 --> 00:37:46,260

as well as all supporters financially

743

00:37:49,790 --> 00:37:48,119

and otherwise awesome well thank you so

744

00:37:50,930 --> 00:37:49,800

much for talking to me with today with

745

00:37:52,790 --> 00:37:50,940

me today

746

00:37:54,910 --> 00:37:52,800

um good luck in the competition and have

747

00:37:57,410 --> 00:37:54,920

a great day thank you

748

00:37:59,030 --> 00:37:57,420

all right well are we gearing up for the

749

00:38:00,410 --> 00:37:59,040

first launch we're getting close lane

750

00:38:02,930 --> 00:38:00,420

I'm looking over your shoulders looking

751

00:38:05,150 --> 00:38:02,940

at the rail a lot fewer people out there

752

00:38:06,530 --> 00:38:05,160

they're uh doing final checks and

753

00:38:08,630 --> 00:38:06,540

everything so we should be flying here

754

00:38:10,849 --> 00:38:08,640

shortly we do have another team join us

755

00:38:13,370 --> 00:38:10,859

one that's really has a really cool

756

00:38:15,170 --> 00:38:13,380

story a team that actually had to fly to

757

00:38:17,030 --> 00:38:15,180

get here so let's bring in the

758

00:38:21,230 --> 00:38:17,040

University of Puerto Rico and hear what

759

00:38:27,530 --> 00:38:25,190

how's everyone doing today great good so

760

00:38:29,690 --> 00:38:27,540

tell us uh first is your rocket out

761

00:38:32,630 --> 00:38:29,700

there on the pad right now no we are

762

00:38:35,270 --> 00:38:32,640

going to the second Valley right now we

763

00:38:37,550 --> 00:38:35,280

plan on having us on some lunch with as

764

00:38:38,750 --> 00:38:37,560

successful excellent so you mentioned

765

00:38:40,250 --> 00:38:38,760

your payload I'm going to ask you about

766

00:38:40,970 --> 00:38:40,260

how are you guys tackling this year's

767

00:38:44,089 --> 00:38:40,980

challenge

768

00:38:46,670 --> 00:38:44,099

so throughout the whole year we have

769

00:38:49,310 --> 00:38:46,680

through the a lot of challenges starting

770

00:38:52,069 --> 00:38:49,320

from the topography where to launch and

771

00:38:53,930 --> 00:38:52,079

the coordination with the airport we

772

00:38:55,190 --> 00:38:53,940

always have constant communication with

773

00:38:57,410 --> 00:38:55,200

the airport having constant

774

00:39:00,890 --> 00:38:57,420

communication with the authority of

775

00:39:04,069 --> 00:39:00,900

Courts which they authorize us to go in

776

00:39:07,490 --> 00:39:04,079

the the place of the launch site in

777

00:39:09,770 --> 00:39:07,500

order to launch our rocket and one of

778

00:39:12,349 --> 00:39:09,780

the biggest challenges besides that is

779

00:39:14,810 --> 00:39:12,359

manufacturing per se the big rocket

780

00:39:17,329 --> 00:39:14,820

because we depend a lot on the

781

00:39:20,390 --> 00:39:17,339

University and other sponsors that we

782

00:39:22,430 --> 00:39:20,400

have that support us and our motor

783

00:39:25,910 --> 00:39:22,440

mounts especially that is made out of

784

00:39:28,550 --> 00:39:25,920

aluminum we had a hard time looking on

785

00:39:31,910 --> 00:39:28,560

how we were going to weld that in and

786

00:39:35,089 --> 00:39:31,920

how to find a shop that could do the job

787

00:39:37,370 --> 00:39:35,099

and having to mount all that together to

788

00:39:40,010 --> 00:39:37,380

the rocket another challenge that we had

789

00:39:43,010 --> 00:39:40,020

is the payload per se because this year

790

00:39:45,829 --> 00:39:43,020

we're launching a Rover and that Rover

791

00:39:48,290 --> 00:39:45,839

gets out of the rocket once it lands and

792

00:39:52,130 --> 00:39:48,300

then it stands up up straight and then

793

00:39:55,550 --> 00:39:52,140

takes the picture 360. yeah and that's

794

00:39:58,370 --> 00:39:55,560

very unique from our team and we put

795

00:40:00,770 --> 00:39:58,380

everything on it and we're still even

796

00:40:03,950 --> 00:40:00,780

now working on a few Financial software

797

00:40:06,170 --> 00:40:03,960

touches before we launch and yeah I

798

00:40:07,970 --> 00:40:06,180

don't know if I left anything up I'm

799

00:40:10,250 --> 00:40:07,980

sorry for all the teams that are back

800

00:40:13,609 --> 00:40:10,260

there and thank you for watching the

801
00:40:16,370 --> 00:40:13,619
family members and all our sponsors and

802
00:40:20,150 --> 00:40:16,380
our I also want to thank our mentors

803
00:40:22,490 --> 00:40:20,160
such as the professor dionetta which

804
00:40:25,550 --> 00:40:22,500
helped us a lot this year also we want

805
00:40:27,770 --> 00:40:25,560
to thank Gary which is the president of

806
00:40:32,690 --> 00:40:27,780
offering on Democracy they they helped

807
00:40:34,790 --> 00:40:32,700
us out a lot and yeah um I think to

808
00:40:36,349 --> 00:40:34,800
write this write things up I want to

809
00:40:42,770 --> 00:40:36,359
finish with a phrase that we like to say

810
00:40:46,970 --> 00:40:44,870
there you have it pure University of

811
00:40:48,530 --> 00:40:46,980
Puerto Rico so excited to have you here

812
00:40:50,089 --> 00:40:48,540
thank you for all the dedication thank

813
00:40:52,430 --> 00:40:50,099

you for working around an airport

814

00:40:53,810 --> 00:40:52,440

schedule just to fly your teslairs we

815

00:40:56,030 --> 00:40:53,820

wish you the best luck and we can't wait

816

00:40:57,950 --> 00:40:56,040

to see you fly here shortly thank you so

817

00:41:00,349 --> 00:40:57,960

much thanks you guys

818

00:41:01,970 --> 00:41:00,359

we're gonna bring Elaine back in we are

819

00:41:04,670 --> 00:41:01,980

still doing team interviews with you

820

00:41:07,130 --> 00:41:04,680

getting closer ever closer launch Lane

821

00:41:09,410 --> 00:41:07,140

they had to work around an Airport's

822

00:41:11,450 --> 00:41:09,420

flight schedule just be able to and that

823

00:41:13,490 --> 00:41:11,460

was just almost seemingly the easiest

824

00:41:15,170 --> 00:41:13,500

challenge they faced out here today yeah

825

00:41:18,589 --> 00:41:15,180

kind of kind of emblematic of what our

826

00:41:20,630 --> 00:41:18,599

teams do every year yeah yeah absolutely

827

00:41:22,670 --> 00:41:20,640

there are so many different elements and

828

00:41:25,010 --> 00:41:22,680

things that can go wrong or go right so

829

00:41:26,870 --> 00:41:25,020

there's a lot to to consider when you're

830

00:41:29,030 --> 00:41:26,880

launching a rocket as we know very well

831

00:41:30,950 --> 00:41:29,040

at Nasa as well well and we we touched

832

00:41:32,870 --> 00:41:30,960

on the payload challenges so each of

833

00:41:34,730 --> 00:41:32,880

these Rockets have a payload on board

834

00:41:36,589 --> 00:41:34,740

for the University and high school teams

835

00:41:37,790 --> 00:41:36,599

they're dictating which payload they can

836

00:41:39,530 --> 00:41:37,800

bring we're going to be hearing more

837

00:41:40,550 --> 00:41:39,540

about the payloads the high school teams

838

00:41:41,690 --> 00:41:40,560

they're going to pick their own

839

00:41:43,670 --> 00:41:41,700

challenge they can pick the university

840

00:41:45,710 --> 00:41:43,680

challenge or they can come up with their

841

00:41:47,390 --> 00:41:45,720

own creation and truly they have some

842

00:41:49,069 --> 00:41:47,400

incredible Creations now we've got a

843

00:41:50,930 --> 00:41:49,079

team back here behind me we are getting

844

00:41:52,670 --> 00:41:50,940

close to lunch I think we can get

845

00:41:54,050 --> 00:41:52,680

another team interview and what do you

846

00:41:55,250 --> 00:41:54,060

say sounds great all right so let's go

847

00:41:57,530 --> 00:41:55,260

in and bring in our next team and I'm

848

00:41:59,690 --> 00:41:57,540

going to step out of frame all right hey

849

00:42:01,849 --> 00:41:59,700

guys thank you so you guys are from Ohio

850

00:42:03,589 --> 00:42:01,859

State correct okay so please introduce

851
00:42:05,150 --> 00:42:03,599
yourself and tell me your major sure my

852
00:42:07,250 --> 00:42:05,160
name is Maddie Herman I'm aerospace

853
00:42:09,410 --> 00:42:07,260
engineering major okay my name is Alex

854
00:42:10,790 --> 00:42:09,420
Cho I'm also aerospace engineering my

855
00:42:12,349 --> 00:42:10,800
name is Mark wolf and I am also an

856
00:42:13,490 --> 00:42:12,359
aerospace engineering all right so nice

857
00:42:15,050 --> 00:42:13,500
to meet you guys so how are you feeling

858
00:42:17,150 --> 00:42:15,060
today what's the energy like in the team

859
00:42:19,310 --> 00:42:17,160
we're feeling great we're super excited

860
00:42:20,750 --> 00:42:19,320
we've been trying for this competition

861
00:42:22,550 --> 00:42:20,760
for several years and this is actually

862
00:42:25,069 --> 00:42:22,560
our very first time being able to make

863
00:42:26,990 --> 00:42:25,079

it in person so our whole team is super

864

00:42:28,490 --> 00:42:27,000

excited to be here we're ready to go for

865

00:42:30,710 --> 00:42:28,500

launch just looking forward to it

866

00:42:35,089 --> 00:42:30,720

absolutely so tell me did you guys face

867

00:42:38,390 --> 00:42:36,710

um yeah I think our one of our biggest

868

00:42:41,089 --> 00:42:38,400

ones was

869

00:42:43,130 --> 00:42:41,099

um for our subscale flight our avionics

870

00:42:46,550 --> 00:42:43,140

Bay actually exploded so we had to spend

871

00:42:48,650 --> 00:42:46,560

about I think eight hours at

872

00:42:50,810 --> 00:42:48,660

um our little research area

873

00:42:54,710 --> 00:42:50,820

um stayed up until like 4 30 a.m

874

00:42:56,750 --> 00:42:54,720

launched that morning at about 11 A.M so

875

00:42:58,970 --> 00:42:56,760

that was a rough morning but we got it

876

00:43:00,230 --> 00:42:58,980

we got it done and it was a it was a fun

877

00:43:02,270 --> 00:43:00,240

experience yeah

878

00:43:03,290 --> 00:43:02,280

today so that's super exciting can you

879

00:43:05,270 --> 00:43:03,300

tell me a little bit more about your

880

00:43:08,510 --> 00:43:05,280

payload and the design of that

881

00:43:10,190 --> 00:43:08,520

sure so our payload uses a a motor

882

00:43:12,109 --> 00:43:10,200

attached to a lead screw that is

883

00:43:14,150 --> 00:43:12,119

actually attached to the nose cone and

884

00:43:16,130 --> 00:43:14,160

when the payload lands it'll orient

885

00:43:17,930 --> 00:43:16,140

itself and then the motor pushes the

886

00:43:19,490 --> 00:43:17,940

lead screw off twist the nose cone

887

00:43:21,470 --> 00:43:19,500

actually away from the body tube and our

888

00:43:24,349 --> 00:43:21,480

camera pops up and can take pictures of

889

00:43:26,210 --> 00:43:24,359

the land around it awesome so where do

890

00:43:27,770 --> 00:43:26,220

you guys launch from how close is it to

891

00:43:30,530 --> 00:43:27,780

your University when you're practicing

892

00:43:32,210 --> 00:43:30,540

we launch about 45 minutes away from

893

00:43:34,609 --> 00:43:32,220

Ohio State we're lucky to have a launch

894

00:43:36,230 --> 00:43:34,619

field that's near us okay awesome do you

895

00:43:40,370 --> 00:43:36,240

guys have anyone you want to thank or

896

00:43:45,890 --> 00:43:42,950

um yeah a lot of people we um first off

897

00:43:48,589 --> 00:43:45,900

want to thank our team advisor Dr John

898

00:43:52,250 --> 00:43:48,599

horak at Ohio State our mentors Todd

899

00:43:54,710 --> 00:43:52,260

knight uh John Dilly Harry Byers

900

00:43:56,390 --> 00:43:54,720

um Casey Rockman Ryan mcelvin Trevor

901
00:43:58,370 --> 00:43:56,400
Williams lots of alumni who have helped

902
00:44:00,170 --> 00:43:58,380
us out of course all of our friends and

903
00:44:02,630 --> 00:44:00,180
family who are watching and supporting

904
00:44:04,910 --> 00:44:02,640
us and all of our team sponsors as well

905
00:44:06,650 --> 00:44:04,920
we're really thankful to have the

906
00:44:08,450 --> 00:44:06,660
support that we do and we're just really

907
00:44:10,430 --> 00:44:08,460
excited to be here so thanks to all of

908
00:44:11,990 --> 00:44:10,440
you yeah absolutely it takes a lot of

909
00:44:13,910 --> 00:44:12,000
support to get those rockets launched

910
00:44:15,890 --> 00:44:13,920
huh well best of luck today guys thank

911
00:44:17,329 --> 00:44:15,900
you so much for talking with me and

912
00:44:19,309 --> 00:44:17,339
we'll see how you guys do today thank

913
00:44:21,470 --> 00:44:19,319

you thank you so much

914

00:44:22,849 --> 00:44:21,480

all right well all right hey Lane I just

915

00:44:25,130 --> 00:44:22,859

talked to Gerald who's going to be doing

916

00:44:27,530 --> 00:44:25,140

our launch commentary we're getting

917

00:44:29,630 --> 00:44:27,540

close so I think it's time to send it

918

00:44:30,650 --> 00:44:29,640

over to launch control all right sounds

919

00:44:33,290 --> 00:44:30,660

great

920

00:44:35,390 --> 00:44:33,300

so are we so we actually have a special

921

00:44:36,890 --> 00:44:35,400

guest pressing the button this year

922

00:44:38,390 --> 00:44:36,900

um Judy and Chris Harvey they own and

923

00:44:40,430 --> 00:44:38,400

operate Bragg farms and their daughter

924

00:44:42,470 --> 00:44:40,440

Josie is celebrating her 16th birthday

925

00:44:44,030 --> 00:44:42,480

so she has the honors of pressing the

926

00:44:45,589 --> 00:44:44,040

button and she's actually grown up on

927

00:44:46,970 --> 00:44:45,599

Bragg Farm since student launch started

928

00:44:48,890 --> 00:44:46,980

launching here so she's seen a lot of

929

00:44:52,130 --> 00:44:48,900

rocket launches for her birthday so it's

930

00:44:53,930 --> 00:44:52,140

always great to have the support of

931

00:44:55,730 --> 00:44:53,940

so let's send it over to our launch

932

00:45:02,270 --> 00:44:55,740

control officer who's going to get us

933

00:45:08,030 --> 00:45:04,550

all right can everyone hear me

934

00:45:11,030 --> 00:45:08,040

I feel like my volume is not very loud

935

00:45:13,730 --> 00:45:11,040

can you hear okay

936

00:45:15,890 --> 00:45:13,740

well morning everybody this is a nice

937

00:45:17,569 --> 00:45:15,900

weather day today I just want to just

938

00:45:19,970 --> 00:45:17,579

kind of warm the crowd up a little bit

939

00:45:21,890 --> 00:45:19,980

as some of the teams are finishing up

940

00:45:24,650 --> 00:45:21,900

getting their Electronics ready and then

941

00:45:27,470 --> 00:45:24,660

also the process of installing the

942

00:45:29,270 --> 00:45:27,480

igniter so I'll be uh I'll be the one

943

00:45:31,250 --> 00:45:29,280

Speaking here today for when we're

944

00:45:32,630 --> 00:45:31,260

flying Rockets I'm pleased to be here

945

00:45:34,309 --> 00:45:32,640

and just wanted to kind of warm the

946

00:45:35,930 --> 00:45:34,319

crowd up a little bit

947

00:45:37,069 --> 00:45:35,940

hopefully I don't get removed before

948

00:45:39,349 --> 00:45:37,079

Days end but we're gonna have a little

949

00:45:41,030 --> 00:45:39,359

fun so I just kind of wanted to say

950

00:45:43,010 --> 00:45:41,040

thank you thank you to a lot of folks

951
00:45:44,569 --> 00:45:43,020
here I mean there's a this doesn't just

952
00:45:46,910 --> 00:45:44,579
happen by accident this is very

953
00:45:48,410 --> 00:45:46,920
intentional deliberating what a special

954
00:45:50,150 --> 00:45:48,420
day to see all this kind of come

955
00:45:52,250 --> 00:45:50,160
together so I just took a couple notes

956
00:45:54,530 --> 00:45:52,260
and just again I want to thank first and

957
00:45:56,990 --> 00:45:54,540
foremost uh NASA and the team that

958
00:45:58,790 --> 00:45:57,000
supports the team into NASA thank you

959
00:46:01,250 --> 00:45:58,800
for these universities that are

960
00:46:03,530 --> 00:46:01,260
competing families parents and stuff

961
00:46:06,410 --> 00:46:03,540
doesn't happen very easily thank you

962
00:46:08,569 --> 00:46:06,420
sponsors thank you uh Nar National

963
00:46:11,329 --> 00:46:08,579

Association of rocketry thank you

964

00:46:13,010 --> 00:46:11,339

Harrah's the local team thank you Bragg

965

00:46:15,050 --> 00:46:13,020

Farms

966

00:46:16,609 --> 00:46:15,060

um thank you there's a lot of VIPs out

967

00:46:19,130 --> 00:46:16,619

here there's so many to list I don't

968

00:46:20,450 --> 00:46:19,140

even know where to begin or to end a lot

969

00:46:22,309 --> 00:46:20,460

of a lot of folks here in the house

970

00:46:24,710 --> 00:46:22,319

today

971

00:46:27,230 --> 00:46:24,720

and I also want to say hello here to

972

00:46:29,210 --> 00:46:27,240

those here in person give yourselves a

973

00:46:30,349 --> 00:46:29,220

hand for attending so thank you all for

974

00:46:32,210 --> 00:46:30,359

attending

975

00:46:34,730 --> 00:46:32,220

gotta warm the crowd up you know clap

976
00:46:37,430 --> 00:46:34,740
you put two hands together there we go I

977
00:46:39,230 --> 00:46:37,440
hear like three people CL there we go so

978
00:46:42,109 --> 00:46:39,240
when the Rocket's successful that's what

979
00:46:44,089 --> 00:46:42,119
you do okay and then those were that are

980
00:46:45,950 --> 00:46:44,099
online and thanks for joining I think

981
00:46:48,589 --> 00:46:45,960
we're live either YouTube or Facebook

982
00:46:51,309 --> 00:46:48,599
maybe both but I've been seeing some of

983
00:46:53,870 --> 00:46:51,319
the chat there online as well so

984
00:46:56,809 --> 00:46:53,880
I did just want to start a little bit

985
00:46:58,069 --> 00:46:56,819
into some of the safety briefing um

986
00:47:00,230 --> 00:46:58,079
because I know we didn't get a chance to

987
00:47:02,030 --> 00:47:00,240
get to that so I wanted to practice a

988
00:47:04,670 --> 00:47:02,040

couple things with with the group here

989

00:47:06,530 --> 00:47:04,680

live today so we say like look listen

990

00:47:08,510 --> 00:47:06,540

and point that's what we really mean so

991

00:47:09,890 --> 00:47:08,520

when the Rockets are flying you want to

992

00:47:12,589 --> 00:47:09,900

be paying attention and being

993

00:47:14,150 --> 00:47:12,599

intentional so let's say from a scenario

994

00:47:16,130 --> 00:47:14,160

standpoint we don't intend it to happen

995

00:47:18,470 --> 00:47:16,140

but let's say a rocket may start to

996

00:47:20,930 --> 00:47:18,480

drift here in the crowd you need to be

997

00:47:22,970 --> 00:47:20,940

able to look listen and point so

998

00:47:25,010 --> 00:47:22,980

everyone take your hand and point it up

999

00:47:27,530 --> 00:47:25,020

want to make sure you practice so if a

1000

00:47:29,329 --> 00:47:27,540

rock is coming in you point then also

1001
00:47:31,550 --> 00:47:29,339
point to your neighbor nud your neighbor

1002
00:47:32,930 --> 00:47:31,560
and let them know to look up as well I

1003
00:47:34,730 --> 00:47:32,940
don't see a lot of hands up so that

1004
00:47:36,230 --> 00:47:34,740
means people are not paying attention so

1005
00:47:38,390 --> 00:47:36,240
we got to get that practice got to get

1006
00:47:41,150 --> 00:47:38,400
that Cadence we don't get a do-over with

1007
00:47:43,250 --> 00:47:41,160
rockets okay so you got to practice that

1008
00:47:44,569 --> 00:47:43,260
if a rocket is coming in you don't want

1009
00:47:46,730 --> 00:47:44,579
to run from it okay you can put your

1010
00:47:48,950 --> 00:47:46,740
hand down sorry

1011
00:47:51,770 --> 00:47:48,960
um you do not want to run from a rocket

1012
00:47:54,589 --> 00:47:51,780
if you see it even under parachute don't

1013
00:48:11,390 --> 00:47:54,599

want to run from it just watch it take a

1014

00:48:15,770 --> 00:48:13,430

and just when you're moving away from it

1015

00:48:17,690 --> 00:48:15,780

in the events coming in in a parachute

1016

00:48:19,550 --> 00:48:17,700

make sure you move in a lateral

1017

00:48:22,370 --> 00:48:19,560

Direction can't move forward or back as

1018

00:48:24,720 --> 00:48:22,380

easy so just keep that in mind you'll

1019

00:48:26,089 --> 00:48:24,730

hear a really loud uh siren go off

1020

00:48:29,089 --> 00:48:26,099

[Music]

1021

00:48:31,309 --> 00:48:29,099

if it's coming in over by us and if it's

1022

00:48:32,630 --> 00:48:31,319

not yours don't touch it don't don't

1023

00:48:34,970 --> 00:48:32,640

need to be bothered with it and keep

1024

00:48:36,890 --> 00:48:34,980

distance away from it so just a couple

1025

00:48:38,809 --> 00:48:36,900

of those things from a safety briefing

1026

00:48:40,910 --> 00:48:38,819

standpoint

1027

00:48:43,490 --> 00:48:40,920

and just so that those have a little bit

1028

00:48:46,309 --> 00:48:43,500

of background I'm Gerald here and my

1029

00:48:47,930 --> 00:48:46,319

role is the launch control officer here

1030

00:48:50,930 --> 00:48:47,940

to be a part of the uh within our

1031

00:48:53,870 --> 00:48:50,940

organization not I'm saying I'm not a

1032

00:48:56,030 --> 00:48:53,880

professional so I did talk to all the

1033

00:48:58,730 --> 00:48:56,040

teams I took some notes as best as I

1034

00:49:00,050 --> 00:48:58,740

could you use a lot of acronyms so I did

1035

00:49:01,910 --> 00:49:00,060

struggle with some of that stuff and

1036

00:49:04,490 --> 00:49:01,920

some technology in terms I've never

1037

00:49:06,710 --> 00:49:04,500

heard of before so I'll use those as

1038

00:49:08,270 --> 00:49:06,720

best as I can but want to have some fun

1039

00:49:10,970 --> 00:49:08,280

in connection with everyone here today

1040

00:49:12,710 --> 00:49:10,980

with and also those online

1041

00:49:14,990 --> 00:49:12,720

so there's a few more things that those

1042

00:49:16,970 --> 00:49:15,000

teams have to do they'll come back in

1043

00:49:19,010 --> 00:49:16,980

and we'll get going if there's any

1044

00:49:59,329 --> 00:49:19,020

questions just let any one of us know

1045

00:50:03,710 --> 00:50:01,670

so I did just receive confirmation the

1046

00:50:06,109 --> 00:50:03,720

uh we're arming all the boxes and you

1047

00:50:07,790 --> 00:50:06,119

see the finals of the teams coming back

1048

00:50:10,730 --> 00:50:07,800

in and then also those that are working

1049

00:50:12,770 --> 00:50:10,740

on the 500 and 300 foot pads so we're

1050

00:52:09,770 --> 00:50:12,780

probably within five to ten minutes of

1051
00:52:09,780 --> 00:52:30,730
zero

1052
00:52:30,740 --> 00:52:40,870
all right

1053
00:52:44,870 --> 00:52:43,309
okay we're ready to get this show on the

1054
00:52:47,450 --> 00:52:44,880
road this is a pretty exciting so we got

1055
00:52:50,630 --> 00:52:47,460
the 2023

1056
00:52:53,450 --> 00:52:50,640
usli SLI competition here at the Bragg

1057
00:52:55,970 --> 00:52:53,460
Farm put on by NASA and supported with

1058
00:52:59,450 --> 00:52:55,980
uh folks from Nar so the very first team

1059
00:53:01,010 --> 00:52:59,460
going today this is UNC Pembroke or

1060
00:53:03,349 --> 00:53:01,020
Pembroke rocket team they're from

1061
00:53:05,750 --> 00:53:03,359
Pembroke North Carolina the name of this

1062
00:53:07,130 --> 00:53:05,760
rocket is called small boy now I hear

1063
00:53:09,410 --> 00:53:07,140

some clapping over there so it's a eight

1064

00:53:12,069 --> 00:53:09,420

pound rocket four inch in diameter six

1065

00:53:14,390 --> 00:53:12,079

feet tall it's flying on an Aerotech

1066

00:53:16,730 --> 00:53:14,400

j540 Redline

1067

00:53:18,770 --> 00:53:16,740

they did not put any notes down but I

1068

00:53:22,790 --> 00:53:18,780

was able to catch and see them for just

1069

00:53:27,410 --> 00:53:25,670

so this is their first time here they've

1070

00:53:29,270 --> 00:53:27,420

um they've had three different team let

1071

00:53:31,190 --> 00:53:29,280

three different team leaders but they

1072

00:53:33,290 --> 00:53:31,200

still did show up

1073

00:53:35,329 --> 00:53:33,300

um they also have a strong social media

1074

00:53:38,030 --> 00:53:35,339

game they have Instagram Tick Tock

1075

00:53:39,230 --> 00:53:38,040

Facebook Twitter Youtube and um they

1076
00:53:40,910 --> 00:53:39,240
normally compete in the First Nations

1077
00:53:42,770 --> 00:53:40,920
launch but they are branching out this

1078
00:53:44,809 --> 00:53:42,780
year I had to know why do they call it

1079
00:53:46,849 --> 00:53:44,819
small boy with an eye and it's said with

1080
00:53:48,410 --> 00:53:46,859
an eye one of their team members was

1081
00:53:50,270 --> 00:53:48,420
assessing all the parts they did not

1082
00:53:52,609 --> 00:53:50,280
know what rocket parts were and they

1083
00:53:54,290 --> 00:53:52,619
called The Switch band the small boy so

1084
00:53:57,109 --> 00:53:54,300
there's a new technical rocket term

1085
00:53:58,609 --> 00:53:57,119
switch band equals small boy okay we're

1086
00:54:01,849 --> 00:53:58,619
ready to go on to the show with flying

1087
00:54:05,450 --> 00:54:01,859
some Rockets we have a clear sky we have

1088
00:54:08,630 --> 00:54:05,460

a clear range we have Josie Harvey who

1089

00:54:10,010 --> 00:54:08,640

just turned 16 earlier this week gets a

1090

00:54:11,329 --> 00:54:10,020

driver's license it says you know what I

1091

00:54:13,010 --> 00:54:11,339

want to fly some rockets and I want to

1092

00:54:15,170 --> 00:54:13,020

push the button so I'm going to push the

1093

00:54:17,210 --> 00:54:15,180

button for this first one to start so we

1094

00:54:20,030 --> 00:54:17,220

have a clear sky clear range we're going

1095

00:54:23,450 --> 00:54:20,040

to go in five four oh this is I'm sorry

1096

00:54:27,530 --> 00:54:23,460

pad number 10 pad number 10

1097

00:54:29,750 --> 00:54:27,540

closest to us furthest to the left

1098

00:54:33,589 --> 00:54:29,760

okay we have a clear sky we have a clear

1099

00:54:37,370 --> 00:54:33,599

range we're going in five four three two

1100

00:54:37,380 --> 00:54:42,910

foreign

1101
00:54:50,809 --> 00:54:48,109
The Crowd Goes Wild so flying on a j540

1102
00:54:55,309 --> 00:54:50,819
rad this is supposed to be going 5200

1103
00:54:55,319 --> 00:55:09,650
it's not oh I see an event

1104
00:55:09,660 --> 00:55:13,670
yep there is an event on it

1105
00:55:13,680 --> 00:55:20,150
nice Clear Blue Sky to start us off

1106
00:55:23,569 --> 00:55:22,309
the main is supposed to be at 600 feet

1107
00:55:27,589 --> 00:55:23,579
so there's a little bit of distance

1108
00:55:28,730 --> 00:55:27,599
between 5200 estimated down to 600 but

1109
00:55:32,510 --> 00:55:28,740
that's why we have the small drug

1110
00:55:34,670 --> 00:55:32,520
parachute that gets it down to a to 600

1111
00:55:37,370 --> 00:55:34,680
feet pretty quickly and then at 600 feet

1112
00:56:14,450 --> 00:55:37,380
a much larger parachute comes out and

1113
00:56:19,130 --> 00:56:17,030

okay I see it just below the Sun but

1114

00:56:21,290 --> 00:56:19,140

like my mother and father told me don't

1115

00:56:23,630 --> 00:56:21,300

ever look into the Sun so just right

1116

00:56:27,290 --> 00:56:23,640

below it there's the rocket under drug

1117

00:56:31,069 --> 00:56:29,150

so it's like pretty much due east of

1118

00:56:33,349 --> 00:56:31,079

where we're at

1119

00:56:35,750 --> 00:56:33,359

so we're probably a thousand feet about

1120

00:56:37,849 --> 00:56:35,760

now so pretty quick here we should see

1121

00:56:42,890 --> 00:56:37,859

the main there's 600 feet

1122

00:56:48,650 --> 00:56:45,230

Crowd Goes Wild a nice good clap there

1123

00:56:54,589 --> 00:56:48,660

but I bet the Pembroke team is pretty

1124

00:56:58,329 --> 00:56:56,930

almost to the ground and then they have

1125

00:57:00,530 --> 00:56:58,339

to do their

1126
00:57:01,450 --> 00:57:00,540
experiment which is going to be involved

1127
00:57:05,390 --> 00:57:01,460
with

1128
00:57:07,130 --> 00:57:05,400
photography communication back from the

1129
00:57:08,329 --> 00:57:07,140
specified location to the team and then

1130
00:57:15,650 --> 00:57:08,339
they take all their pictures so

1131
00:57:19,490 --> 00:57:17,809
and a reminder to the team don't go and

1132
00:57:27,710 --> 00:57:19,500
recover your rocket until the range is

1133
00:57:32,510 --> 00:57:29,930
so we're going to go in numerical order

1134
00:57:39,109 --> 00:57:32,520
so we're now going to go over to pad

1135
00:57:43,130 --> 00:57:41,329
okay we're hold for helicopter

1136
00:57:45,589 --> 00:57:43,140
so that's one of the other things if you

1137
00:57:48,829 --> 00:57:45,599
see aircraft in the air we don't want to

1138
00:57:50,630 --> 00:57:48,839

uh disrupt or disturb them we do have a

1139

00:57:52,309 --> 00:57:50,640

clearance to fly Rockets but sometimes

1140

00:57:54,230 --> 00:57:52,319

we have some

1141

00:57:57,230 --> 00:57:54,240

other aircraft in the area we do not

1142

00:58:00,530 --> 00:57:57,240

want to be sharing it so someone see

1143

00:58:01,849 --> 00:58:00,540

something say something

1144

00:58:04,730 --> 00:58:01,859

well I'll start reading off the flight

1145

00:58:06,890 --> 00:58:04,740

card here so on pad number 11 we have

1146

00:58:09,170 --> 00:58:06,900

aiaab

1147

00:58:10,730 --> 00:58:09,180

OC section which is down in Irvine

1148

00:58:12,530 --> 00:58:10,740

California

1149

00:58:14,630 --> 00:58:12,540

the name of this rocket is called red

1150

00:58:17,030 --> 00:58:14,640

lightning 15 and a half pounds three

1151
00:58:20,390 --> 00:58:17,040
inch in diameter eight foot tall flying

1152
00:58:22,730 --> 00:58:20,400
on an Aerotech k2050 that's a very

1153
00:58:24,290 --> 00:58:22,740
healthy Punchy motor just knowing that

1154
00:58:26,450 --> 00:58:24,300
from experience

1155
00:58:28,190 --> 00:58:26,460
so for their science experiment and

1156
00:58:31,309 --> 00:58:28,200
payload information is called the

1157
00:58:33,410 --> 00:58:31,319
additive velocity payload that has a

1158
00:58:36,829 --> 00:58:33,420
buzzer that will emit sound and two

1159
00:58:39,349 --> 00:58:36,839
microphones one aft and one under the

1160
00:58:40,730 --> 00:58:39,359
rear of the buzzer both microphones will

1161
00:58:43,910 --> 00:58:40,740
be observed

1162
00:58:45,890 --> 00:58:43,920
the frequency shift of the buzzer during

1163
00:58:48,049 --> 00:58:45,900

a sense I hope all of you got and

1164

00:58:49,730 --> 00:58:48,059

understood that

1165

00:58:51,230 --> 00:58:49,740

um one of the other things I did notice

1166

00:58:53,630 --> 00:58:51,240

when I looked at the rocket it's a

1167

00:58:56,690 --> 00:58:53,640

fairly small diameter rocket on a k2050

1168

00:58:59,089 --> 00:58:56,700

it's going to go right to 5000 feet they

1169

00:59:01,089 --> 00:58:59,099

also use some very thick fiberglass fins

1170

00:59:03,650 --> 00:59:01,099

so those fins probably will never break

1171

00:59:05,089 --> 00:59:03,660

they did not have a name when I a name

1172

00:59:08,630 --> 00:59:05,099

with a rocket and I guess they did

1173

00:59:11,270 --> 00:59:08,640

settle on uh red lightning they do have

1174

00:59:13,849 --> 00:59:11,280

11 team members seven of them are here

1175

00:59:15,410 --> 00:59:13,859

the team also said to me they had fun

1176

00:59:17,510 --> 00:59:15,420

time working together and they did not

1177

00:59:19,910 --> 00:59:17,520

have time to paint it there you go so

1178

00:59:22,549 --> 00:59:19,920

we're gonna go on pad number 11. this is

1179

00:59:25,430 --> 00:59:22,559

red lightning on a k2050 to 5000 feet

1180

00:59:32,809 --> 00:59:25,440

clear sky clear range we're gonna launch

1181

00:59:41,210 --> 00:59:36,049

yep I know the k2050s that's the super

1182

00:59:45,410 --> 00:59:43,190

no you don't need to apologize I hear

1183

00:59:47,150 --> 00:59:45,420

some sorrys nope nope that's let's rock

1184

00:59:50,390 --> 00:59:47,160

a tree that's what we do

1185

00:59:50,400 --> 00:59:54,230

there's a

1186

00:59:54,240 --> 01:00:01,609

okay I can see it under drogue

1187

01:00:09,049 --> 01:00:03,589

so right now it's under drove the main

1188

01:00:14,750 --> 01:00:11,210

so I don't know if they're uh stuff to

1189

01:00:16,069 --> 01:00:14,760

test for frequency and buzzers I don't

1190

01:00:42,049 --> 01:00:16,079

know if that's gonna work that went up

1191

01:00:45,890 --> 01:00:44,569

oh there's the main event just right by

1192

01:00:48,289 --> 01:00:45,900

the Sun

1193

01:00:56,150 --> 01:00:48,299

the team is very happy and satisfied

1194

01:01:11,690 --> 01:00:58,130

so that won't land too far away that

1195

01:01:14,930 --> 01:01:13,910

okay we're gonna go to pad number 12.

1196

01:01:20,809 --> 01:01:14,940

this is

1197

01:01:23,150 --> 01:01:20,819

of Charlottesville Virginia

1198

01:01:27,230 --> 01:01:23,160

the name of this rocket is decently

1199

01:01:29,270 --> 01:01:27,240

sized Dipper it's a 16 pound rocket 4

1200

01:01:33,849 --> 01:01:29,280

inch in diameter seven feet three inches

1201

01:01:37,849 --> 01:01:33,859

tall flying on a k535 for the

1202

01:01:40,010 --> 01:01:37,859

electronics it says uh piezoelectronics

1203

01:01:42,950 --> 01:01:40,020

generators we are measuring how much

1204

01:01:45,890 --> 01:01:42,960

electricity can be harnessed or

1205

01:01:47,210 --> 01:01:45,900

harvested from vibrations as the rocket

1206

01:01:49,069 --> 01:01:47,220

ascends

1207

01:01:50,630 --> 01:01:49,079

a Boy Scout Troop folks that's pretty

1208

01:01:52,490 --> 01:01:50,640

impressive

1209

01:01:54,650 --> 01:01:52,500

couple will notes I noticed from this

1210

01:01:57,530 --> 01:01:54,660

team this is playing on Aerotek k535

1211

01:01:59,690 --> 01:01:57,540

should go about 4 500 feet

1212

01:02:01,670 --> 01:01:59,700

um so they did have a a saying on the

1213

01:02:03,950 --> 01:02:01,680

Rock is called the dream is alive it's a

1214

01:02:06,109 --> 01:02:03,960

actually the famous words from the sts-1

1215

01:02:08,089 --> 01:02:06,119

shuttle mission John Young upon

1216

01:02:11,030 --> 01:02:08,099

touchdown back to Earth after the

1217

01:02:13,069 --> 01:02:11,040

mission this team had a lot of fun and

1218

01:02:14,510 --> 01:02:13,079

um they had a lot of dad jokes included

1219

01:02:17,089 --> 01:02:14,520

with the building of this rocket

1220

01:02:18,710 --> 01:02:17,099

including launching a volley of puns I

1221

01:02:20,150 --> 01:02:18,720

did not say that that was one of the dad

1222

01:02:21,829 --> 01:02:20,160

jokes though

1223

01:02:23,589 --> 01:02:21,839

um they did contract out the paint job

1224

01:02:25,490 --> 01:02:23,599

came back a little different but after

1225

01:02:27,170 --> 01:02:25,500

thinking about it they ended up really

1226

01:02:28,309 --> 01:02:27,180

really liking it

1227

01:02:30,829 --> 01:02:28,319

um they're out and they're also they

1228

01:02:32,569 --> 01:02:30,839

have a PR person named Mason who did

1229

01:02:34,609 --> 01:02:32,579

very well supporting the team including

1230

01:02:36,470 --> 01:02:34,619

live streaming the scale flight they

1231

01:02:39,230 --> 01:02:36,480

also did a GoFundMe this is a very

1232

01:02:41,329 --> 01:02:39,240

relaxed team with varying age rages Boy

1233

01:02:43,130 --> 01:02:41,339

Scouts it can range from age 10 to age

1234

01:02:45,109 --> 01:02:43,140

18 and they cover all the gamut with

1235

01:02:47,329 --> 01:02:45,119

this team pretty impressive work okay

1236

01:02:49,609 --> 01:02:47,339

we're gonna go to pad 12. clear sky

1237

01:03:02,870 --> 01:02:49,619

clear range we're gonna launch in five

1238

01:03:14,809 --> 01:03:05,630

nice boost the crowd seems to be

1239

01:03:14,819 --> 01:03:20,390

oh there's an event

1240

01:03:27,470 --> 01:03:24,349

so that was supposed to go 4 500 feet

1241

01:03:34,730 --> 01:03:27,480

I don't know if it went 4 500 feet but

1242

01:03:40,130 --> 01:03:36,770

and it's really small drogue the main is

1243

01:03:42,530 --> 01:03:40,140

set for 700 feet

1244

01:03:44,569 --> 01:03:42,540

oh there it is

1245

01:03:46,250 --> 01:03:44,579

all right

1246

01:03:51,230 --> 01:03:46,260

I hope they harnessed a lot of

1247

01:03:54,470 --> 01:03:53,089

it's a shocking flight oh yeah we gotta

1248

01:03:56,930 --> 01:03:54,480

use all the dad jokes for this team

1249

01:04:00,410 --> 01:03:56,940

that's right

1250

01:04:02,450 --> 01:04:00,420

okay moving on to pad number 20. this is

1251

01:04:04,490 --> 01:04:02,460

a Whitney Young Aerospace out of Whitney

1252

01:04:07,609 --> 01:04:04,500

uh or the school's Whitney Young out of

1253

01:04:12,470 --> 01:04:07,619

Chicago Illinois the name of this rocket

1254

01:04:15,950 --> 01:04:12,480

is a Red Rider it's a 26.35 pounds five

1255

01:04:20,690 --> 01:04:15,960

inch in diameter 103 inches tall

1256

01:04:23,510 --> 01:04:20,700

is flying on a Aerotech k1000 it should

1257

01:04:26,270 --> 01:04:23,520

go about 3 700 feet for the um

1258

01:04:28,069 --> 01:04:26,280

experiment information

1259

01:04:33,410 --> 01:04:28,079

um

1260

01:04:38,750 --> 01:04:35,930

okay so with this team they're doing the

1261

01:04:42,230 --> 01:04:38,760

same as College usli requirements

1262

01:04:44,089 --> 01:04:42,240

without the aprs utilization and it says

1263

01:04:45,710 --> 01:04:44,099

automated

1264

01:04:47,809 --> 01:04:45,720

um with this team but they told me that

1265

01:04:49,010 --> 01:04:47,819

oh they're payload they call it pixel so

1266

01:04:50,329 --> 01:04:49,020

if you look at the rocket it's kind of

1267

01:04:52,430 --> 01:04:50,339

hard to see it's red and black but it's

1268

01:04:55,309 --> 01:04:52,440

got a pretty cool pixelated paint job

1269

01:04:58,609 --> 01:04:55,319

and the payload does take pictures upon

1270

01:05:00,829 --> 01:04:58,619

Landing okay on pad 20. we have a clear

1271

01:05:10,849 --> 01:05:00,839

sky we have a clear range we will launch

1272

01:05:17,089 --> 01:05:13,309

okay this should be on its way to 3 700

1273

01:05:22,609 --> 01:05:19,430

starting to Arc over a little bit that

1274

01:05:25,069 --> 01:05:22,619

might be pretty close to 3 700 feet

1275

01:05:30,410 --> 01:05:25,079

there's an event there's its back up to

1276

01:05:30,420 --> 01:05:34,490

oh is that the main Maybe

1277

01:05:38,930 --> 01:05:36,650

oh that that does look like that's the

1278

01:05:46,910 --> 01:05:38,940

main the main is supposed to come out at

1279

01:05:51,650 --> 01:05:49,250

and then some you can probably see that

1280

01:05:53,809 --> 01:05:51,660

smoke below it that's actually tracking

1281

01:05:58,190 --> 01:05:53,819

smoke that's in the motor so you can

1282

01:06:00,289 --> 01:05:58,200

visually Spot It under recovery

1283

01:06:02,030 --> 01:06:00,299

and the Sea it just burned itself out so

1284

01:06:04,549 --> 01:06:02,040

it will burn for a period of duration so

1285

01:06:07,490 --> 01:06:04,559

you can see it while it's up in the air

1286

01:06:11,030 --> 01:06:07,500

but the main is out at apogee so that's

1287

01:06:12,470 --> 01:06:11,040

going for the K parachute duration

1288

01:06:42,589 --> 01:06:12,480

probably it's one of the Gnar

1289

01:06:42,599 --> 01:06:46,370

oh

1290

01:06:46,380 --> 01:06:51,170

so still hanging out up there

1291

01:06:51,180 --> 01:07:13,910

it will be out in the field

1292

01:07:19,190 --> 01:07:15,890

so it's still coming down under its main

1293

01:07:20,870 --> 01:07:19,200

parachute so you'll see it like I think

1294

01:07:23,270 --> 01:07:20,880

it was 800 feet you'll see probably a

1295

01:07:24,950 --> 01:07:23,280

smoke piece come out and that will be

1296

01:07:27,289 --> 01:07:24,960

where the parachute was actually

1297

01:07:29,029 --> 01:07:27,299

supposed to come out for the main

1298

01:07:30,410 --> 01:07:29,039

that's okay you'd rather have it out

1299

01:07:32,329 --> 01:07:30,420

than not out

1300

01:08:00,589 --> 01:07:32,339

we've learned from some of the scale and

1301

01:08:03,770 --> 01:08:02,510

okay so that one is just about to touch

1302

01:08:05,990 --> 01:08:03,780

down

1303

01:08:07,910 --> 01:08:06,000

so I will continue on as that one is

1304

01:08:10,190 --> 01:08:07,920

just about

1305

01:08:13,430 --> 01:08:10,200

it's right at the tree line so this is

1306

01:08:16,550 --> 01:08:13,440

going to be on pad number 21 the team

1307

01:08:18,829 --> 01:08:16,560

name is called space Jacks uh the school

1308

01:08:20,510 --> 01:08:18,839

is Northern Arizona University out of

1309

01:08:22,550 --> 01:08:20,520

Flagstaff Arizona

1310

01:08:25,669 --> 01:08:22,560

the name of the rocket is called lofty

1311

01:08:27,890 --> 01:08:25,679

aspirations it's a almost 23 pound

1312

01:08:29,329 --> 01:08:27,900

rocket four inch in diameter eight and a

1313

01:08:31,490 --> 01:08:29,339

half feet tall

1314

01:08:34,849 --> 01:08:31,500

so for their science and experiment

1315

01:08:37,550 --> 01:08:34,859

information all they wrote down was NASA

1316

01:08:41,110 --> 01:08:37,560

usli challenge they kept it short and

1317

01:08:44,510 --> 01:08:41,120

sweet it is flying on an Aerotek k1100

1318

01:08:45,530 --> 01:08:44,520

Blue Thunder it should go about 5 000

1319

01:08:48,950 --> 01:08:45,540

feet

1320

01:08:50,809 --> 01:08:48,960

and the main is set for 600 so for this

1321

01:08:52,789 --> 01:08:50,819

team this is the first time competing

1322

01:08:55,550 --> 01:08:52,799

for them either in a long time or ever

1323

01:08:59,630 --> 01:08:55,560

they have an elongated payload package

1324

01:09:02,150 --> 01:08:59,640

with two gimbaling passive systems

1325

01:09:04,189 --> 01:09:02,160

this team also did paint the rocket this

1326

01:09:05,749 --> 01:09:04,199

end up on it so they just could remind

1327

01:09:08,209 --> 01:09:05,759

themselves which way is the correct

1328

01:09:09,769 --> 01:09:08,219

orientation of the rocket

1329

01:09:11,570 --> 01:09:09,779

um and then within the past couple of

1330

01:09:13,490 --> 01:09:11,580

days they wanted to point or paint on

1331

01:09:15,229 --> 01:09:13,500

there this end down and then they also

1332

01:09:17,510 --> 01:09:15,239

painted on their lofty aspirations they

1333

01:09:19,729 --> 01:09:17,520

said it earned a name the team also

1334

01:09:21,349 --> 01:09:19,739

struggled with one of their management I

1335

01:09:23,390 --> 01:09:21,359

guess skills they're supposed to order

1336

01:09:25,309 --> 01:09:23,400

pizza for club meetings but they never

1337

01:09:26,689 --> 01:09:25,319

got around to doing it so hopefully

1338

01:09:29,090 --> 01:09:26,699

they'll remember to order pizza for

1339

01:09:31,789 --> 01:09:29,100

their next meet okay continuing on to

1340

01:09:33,590 --> 01:09:31,799

the launch on pad number 21 we are going

1341

01:09:35,269 --> 01:09:33,600

to launch lofty aspirations we have a

1342

01:09:39,050 --> 01:09:35,279

clear sky clear range we're going to

1343

01:09:45,229 --> 01:09:39,060

launch in five four three two one

1344

01:09:49,610 --> 01:09:47,630

k1100 those are good Motors those Motors

1345

01:09:52,490 --> 01:09:49,620

uh made by Aerotek have been around for

1346

01:09:52,500 --> 01:09:56,630

still under I can still see it

1347

01:09:56,640 --> 01:09:59,630

there is an event

1348

01:10:04,130 --> 01:10:01,850

and then that's the back up to the

1349

01:10:06,590 --> 01:10:04,140

apogee event which is good it's a good

1350

01:10:08,870 --> 01:10:06,600

sign so the main is not out so this

1351

01:10:13,790 --> 01:10:08,880

one's coming down at a quicker rate

1352

01:10:18,950 --> 01:10:15,590

I don't think this rocket probably went

1353

01:10:22,130 --> 01:10:18,960

5 000 feet would be would be my guess

1354

01:10:24,410 --> 01:10:22,140

that three thousand thirty five hundred

1355

01:10:26,750 --> 01:10:24,420

we're coming in about two thousand feet

1356

01:10:30,410 --> 01:10:26,760

right now

1357

01:10:32,630 --> 01:10:30,420

probably 1500 right around a thousand

1358

01:10:34,430 --> 01:10:32,640

and there's your 600.

1359

01:10:35,630 --> 01:10:34,440

all right and then there's our backup to

1360

01:10:39,169 --> 01:10:35,640

the main

1361

01:10:41,390 --> 01:10:39,179

so everything looks good on that one

1362

01:11:16,010 --> 01:10:41,400

not such lofty aspirations I'm still

1363

01:11:21,470 --> 01:11:18,110

okay so now we're going to pad number

1364

01:11:23,510 --> 01:11:21,480

22. this is Portland rocketry out of

1365

01:11:26,510 --> 01:11:23,520

Portland Oregon the name of this rocket

1366

01:11:27,490 --> 01:11:26,520

is Asgard 2.0 14 pounds four inch in

1367

01:11:31,910 --> 01:11:27,500

diameter

1368

01:11:34,490 --> 01:11:31,920

7.65 feet it is flying on a j 449 Blue

1369

01:11:36,910 --> 01:11:34,500

Streak cesaroni motor should go about 4

1370

01:11:40,130 --> 01:11:36,920

100 feet on the experiment information

1371

01:11:43,130 --> 01:11:40,140

it has an air brake system the Aero

1372

01:11:44,570 --> 01:11:43,140

brake system autonomously deploys three

1373

01:11:48,470 --> 01:11:44,580

fins

1374

01:11:50,270 --> 01:11:48,480

uh dynamically change the drag

1375

01:11:51,830 --> 01:11:50,280

wait there's a lot of information here

1376

01:11:53,930 --> 01:11:51,840

dynamically change the drag of the

1377

01:11:55,490 --> 01:11:53,940

rocket during flight this makes it so

1378

01:11:58,550 --> 01:11:55,500

the rocket can reach the predicted

1379

01:12:02,270 --> 01:11:58,560

height more accurately the main is set

1380

01:12:04,790 --> 01:12:02,280

for 500 feet and this team this is their

1381

01:12:06,050 --> 01:12:04,800

second time being here ever

1382

01:12:08,450 --> 01:12:06,060

um and with the name of the rocket

1383

01:12:10,610 --> 01:12:08,460

Asgard number two it goes to Greek

1384

01:12:11,689 --> 01:12:10,620

mythology which represents the city of

1385

01:12:13,910 --> 01:12:11,699

the Gods

1386

01:12:15,950 --> 01:12:13,920

I also thought was unique with this team

1387

01:12:18,110 --> 01:12:15,960

it's a team of six members

1388

01:12:19,850 --> 01:12:18,120

they did not have a chance to paint it

1389

01:12:21,590 --> 01:12:19,860

in time but they decorated it I think

1390

01:12:23,209 --> 01:12:21,600

since Thursday they put a lot of glitter

1391

01:12:25,550 --> 01:12:23,219

and so glitter is everywhere folks so

1392

01:12:27,229 --> 01:12:25,560

just double check your shirts I thought

1393

01:12:29,330 --> 01:12:27,239

was unique with this team as they also

1394

01:12:31,550 --> 01:12:29,340

had a rocket playlist when they would

1395

01:12:33,709 --> 01:12:31,560

get together and do the working on the

1396

01:12:35,270 --> 01:12:33,719

project some of the songs they shared

1397

01:12:38,450 --> 01:12:35,280

with me they like to play the Rick Roll

1398

01:12:41,870 --> 01:12:38,460

song the Spider-Man theme song Felice

1399

01:12:44,030 --> 01:12:41,880

Navidad Pokeman theme song Rocket Man Of

1400

01:12:46,370 --> 01:12:44,040

course Ain't No Mountain High Enough so

1401

01:12:48,470 --> 01:12:46,380

quite a diverse playlist when they're in

1402

01:12:51,770 --> 01:12:48,480

crunch time mode though they do like to

1403

01:12:52,850 --> 01:12:51,780

play the Mario gamer music song so if

1404

01:12:54,830 --> 01:12:52,860

you want to check out their Spotify

1405

01:12:59,149 --> 01:12:54,840

playlist I'd go check out with Portland

1406

01:13:00,770 --> 01:12:59,159

rocketry okay on pad number 22 we have a

1407

01:13:04,550 --> 01:13:00,780

clear sky we have a clear range we're

1408

01:13:09,050 --> 01:13:04,560

going to launch in five four three two

1409

01:13:23,030 --> 01:13:12,050

foreign so there should be an air brake

1410

01:13:30,110 --> 01:13:26,149

okay it was told there's an event

1411

01:13:30,120 --> 01:13:45,890

oh yeah there it is

1412

01:14:18,320 --> 01:13:48,530

and the main on this one is set for 550

1413

01:14:22,310 --> 01:14:20,390

[Applause]

1414

01:14:40,130 --> 01:14:22,320

okay and then there's the main on that

1415

01:14:46,430 --> 01:14:42,229

okay so now we're going to the 500 foot

1416

01:14:49,970 --> 01:14:48,290

okay so we're going out to the far back

1417

01:14:52,189 --> 01:14:49,980

pads furthest to the left is where we'll

1418

01:14:55,189 --> 01:14:52,199

start we'll start on pad number 41 this

1419

01:14:57,229 --> 01:14:55,199

is Owl rocketry at a Temple University

1420

01:15:00,169 --> 01:14:57,239

at a Philadelphia Pennsylvania the name

1421

01:15:02,990 --> 01:15:00,179

of this rocket is Balboa it doesn't have

1422

01:15:04,790 --> 01:15:03,000

a weight listed so it's it doesn't want

1423

01:15:06,310 --> 01:15:04,800

to share its weight it's five and a half

1424

01:15:10,850 --> 01:15:06,320

inch diameter

1425

01:15:13,990 --> 01:15:10,860

9.4 feet tall it is flying on an L 1150

1426

01:15:17,870 --> 01:15:14,000

Aerotech Redline it should go

1427

01:15:20,390 --> 01:15:17,880

4935 feet the main is set for

1428

01:15:23,270 --> 01:15:20,400

600 feet this is their first time being

1429

01:15:25,189 --> 01:15:23,280

here they are using a secondary pay uh

1430

01:15:27,229 --> 01:15:25,199

payload on this rocket I thought it was

1431

01:15:29,689 --> 01:15:27,239

also a unique story on this team their

1432

01:15:33,110 --> 01:15:29,699

Mentor is also their team member and was

1433

01:15:36,110 --> 01:15:33,120

also a competitor in the SLI division

1434

01:15:38,270 --> 01:15:36,120

when she was in high school the team is

1435

01:15:41,030 --> 01:15:38,280

made up of eight members they also had a

1436

01:15:42,950 --> 01:15:41,040

weird way of the key lock switch so like

1437

01:15:45,709 --> 01:15:42,960

I think of a normal house key they put

1438

01:15:47,630 --> 01:15:45,719

the key in there broke the key off but

1439

01:15:49,669 --> 01:15:47,640

then they will use a screwdriver to turn

1440

01:15:50,810 --> 01:15:49,679

the electronics on and off so that is a

1441

01:15:53,330 --> 01:15:50,820

unique

1442

01:15:56,750 --> 01:15:53,340

Ingenuity way to approach the switch

1443

01:15:59,270 --> 01:15:56,760

system on pad number 41 we have Temple

1444

01:16:00,530 --> 01:15:59,280

University we have a clear sky we have a

1445

01:16:12,590 --> 01:16:00,540

clear range we're going to launch in

1446

01:16:17,990 --> 01:16:15,229

burn the igniter on that one so what

1447

01:16:20,990 --> 01:16:18,000

happens is is the igniter lit but it did

1448

01:16:25,669 --> 01:16:21,000

not give enough energy to light the

1449

01:16:30,530 --> 01:16:27,649

so we'll come back and recycle that one

1450

01:16:33,350 --> 01:16:30,540

on pad 42 we have the University of

1451

01:16:35,390 --> 01:16:33,360

Alabama Tuscaloosa

1452

01:16:37,550 --> 01:16:35,400

well I guess they're kind of excited

1453

01:16:40,390 --> 01:16:37,560

they're out of Tuscaloosa Alabama the

1454

01:16:42,470 --> 01:16:40,400

name of this rocket is Prometheus

1455

01:16:46,250 --> 01:16:42,480

34.8 pounds four and a half inch

1456

01:16:49,430 --> 01:16:46,260

diameter 8.33 feet tall this team has a

1457

01:16:52,130 --> 01:16:49,440

CO2 deployment system 23 grams and the

1458

01:16:54,470 --> 01:16:52,140

main 35 is back up this is the only team

1459

01:16:56,570 --> 01:16:54,480

that I'm aware of that is also using CO2

1460

01:16:58,610 --> 01:16:56,580

deployment too

1461

01:17:00,470 --> 01:16:58,620

so their experiment information upon

1462

01:17:02,510 --> 01:17:00,480

Landing that payload Bay deploys a

1463

01:17:04,490 --> 01:17:02,520

vertical camera using a pulley system

1464

01:17:07,669 --> 01:17:04,500

this camera operates using radio

1465

01:17:10,729 --> 01:17:07,679

frequency commands relayed by NASA

1466

01:17:14,689 --> 01:17:10,739

this rocket is also flying on an

1467

01:17:16,850 --> 01:17:14,699

Aerotech I1150 Redline it should go 5

1468

01:17:18,830 --> 01:17:16,860

000 feet I think their payload is called

1469

01:17:20,510 --> 01:17:18,840

fear the Ripper and I think they're

1470

01:17:23,149 --> 01:17:20,520

going for the 3D printed award I saw a

1471

01:17:25,130 --> 01:17:23,159

lot of 3D printed stuff on there this

1472

01:17:28,310 --> 01:17:25,140

also this team rolls deep they got 35

1473

01:17:29,750 --> 01:17:28,320

members on their team they also um we

1474

01:17:32,090 --> 01:17:29,760

also want to thank all of our sponsors

1475

01:17:34,250 --> 01:17:32,100

we're grateful to have you here and

1476

01:17:35,990 --> 01:17:34,260

support um the schools and programs and

1477

01:17:38,090 --> 01:17:36,000

dreams but I will say this team did

1478

01:17:41,090 --> 01:17:38,100

secure a very unique sponsorship from

1479

01:17:43,669 --> 01:17:41,100

Whataburger I thought that was different

1480

01:17:45,470 --> 01:17:43,679

um something about 50 Burgers so I want

1481

01:17:46,850 --> 01:17:45,480

to get one of those 50 Burgers too so

1482

01:17:50,570 --> 01:17:46,860

just keep that in mind right here at the

1483

01:17:53,209 --> 01:17:50,580

lco desk okay pad 42 clear sky clear

1484

01:17:57,410 --> 01:17:53,219

range we're going to launch in five four

1485

01:18:24,010 --> 01:17:57,420

three two one ignition

1486

01:18:24,020 --> 01:18:29,750

than never

1487

01:18:33,530 --> 01:18:31,669

well I guess that's CO2 I don't know

1488

01:18:37,490 --> 01:18:33,540

what's going on there but

1489

01:19:00,770 --> 01:18:37,500

hopefully the vertical camera system

1490

01:19:00,780 --> 01:19:15,950

oh there's the main okay

1491

01:19:15,960 --> 01:19:24,470

hmm I don't know not sure on that one

1492

01:19:32,630 --> 01:19:29,630

okay Pat yep pad 43 so pad 43 this is

1493

01:19:36,950 --> 01:19:32,640

uh Wu rocketry out of Washington

1494

01:19:38,689 --> 01:19:36,960

University in St Louis out of St Louis

1495

01:19:40,850 --> 01:19:38,699

oh they got their little chant going

1496

01:19:43,490 --> 01:19:40,860

there too I don't know what's going on

1497

01:19:46,370 --> 01:19:43,500

over there calm down everyone the name

1498

01:19:48,850 --> 01:19:46,380

of this rocket is uh benkin one I

1499

01:19:53,450 --> 01:19:48,860

believe it's 41 pounds

1500

01:19:55,970 --> 01:19:53,460

6.17 inch diameter 9.25 feet tall this

1501

01:19:57,590 --> 01:19:55,980

rocket does says besides a sick paint

1502

01:20:00,290 --> 01:19:57,600

job I didn't see I didn't this is what

1503

01:20:03,169 --> 01:20:00,300

it says I'm reading it this rocket has a

1504

01:20:06,229 --> 01:20:03,179

3D printed airfoil fin shells and two

1505

01:20:08,390 --> 01:20:06,239

onboard cameras to record flights their

1506

01:20:10,250 --> 01:20:08,400

experiment info information is called

1507

01:20:12,050 --> 01:20:10,260

the vision so we'll start of many

1508

01:20:15,470 --> 01:20:12,060

acronyms you'll hear over the day today

1509

01:20:18,050 --> 01:20:15,480

this is the virtual interactive snapshot

1510

01:20:22,070 --> 01:20:18,060

in operational environment

1511

01:20:25,070 --> 01:20:22,080

is an SDR aprs based on a scissor lift

1512

01:20:26,689 --> 01:20:25,080

ground deployment Imaging system I hope

1513

01:20:29,590 --> 01:20:26,699

you all got that there's a test later

1514

01:20:32,090 --> 01:20:29,600

today on it it is flying on an Aerotech

1515

01:20:34,790 --> 01:20:32,100

I1390 Mojave green

1516

01:20:36,169 --> 01:20:34,800

should go about 4 600 feet

1517

01:20:38,149 --> 01:20:36,179

um I thought was unique with this team

1518

01:20:40,310 --> 01:20:38,159

is they one of these sub teams made

1519

01:20:42,530 --> 01:20:40,320

their own special sunglasses I think

1520

01:20:44,390 --> 01:20:42,540

they're probably wearing them right now

1521

01:20:46,010 --> 01:20:44,400

the other thing they mentioned they have

1522

01:20:47,630 --> 01:20:46,020

a rack and pinion system in there I'm

1523

01:20:49,970 --> 01:20:47,640

like I thought that goes in a car but

1524

01:20:51,950 --> 01:20:49,980

they put it in the rocket

1525

01:20:53,810 --> 01:20:51,960

um they also have a they have a nose

1526

01:20:56,689 --> 01:20:53,820

cone that has an elliptical finish it's

1527

01:20:58,970 --> 01:20:56,699

not to a point and then the Leading Edge

1528

01:21:00,709 --> 01:20:58,980

to the fins are 3D printed this team

1529

01:21:04,430 --> 01:21:00,719

also rolls pretty deep they got 40 team

1530

01:21:06,890 --> 01:21:04,440

members total 25 of them 25 of them are

1531

01:21:09,229 --> 01:21:06,900

here the team also came up with their

1532

01:21:12,110 --> 01:21:09,239

own logo they have a pretty high team

1533

01:21:14,330 --> 01:21:12,120

morale and I guess one of their team

1534

01:21:16,729 --> 01:21:14,340

members Brendan doesn't like to sleep a

1535

01:21:18,709 --> 01:21:16,739

lot I guess this likes to sleep while

1536

01:21:20,030 --> 01:21:18,719

showering there's a story there you're

1537

01:21:22,370 --> 01:21:20,040

going to have to go talk to Brendan on

1538

01:21:24,410 --> 01:21:22,380

that one okay on pad 43 we're gonna

1539

01:21:26,090 --> 01:21:24,420

we're gonna launch this rocket in the

1540

01:21:29,990 --> 01:21:26,100

clear sky we have a clear range we're

1541

01:21:37,610 --> 01:21:30,000

gonna launch in five four three two one

1542

01:21:42,890 --> 01:21:40,850

nice Mojave green that should go 4 600

1543

01:21:44,570 --> 01:21:42,900

feet

1544

01:21:49,729 --> 01:21:44,580

that might do it

1545

01:21:49,739 --> 01:21:54,169

there is an event there's its back up

1546

01:21:54,179 --> 01:22:23,570

and the main is set for 600 feet

1547

01:22:29,209 --> 01:22:26,750

it's probably 1500 feet

1548

01:22:31,790 --> 01:22:29,219

close to a thousand feet now so we

1549

01:22:37,430 --> 01:22:31,800

should see it about 600 feet

1550

01:22:46,370 --> 01:22:41,149

it's a low 600 feet oh there we go

1551

01:22:49,490 --> 01:22:48,169

Brandon I hope you're awake for this do

1552

01:22:55,490 --> 01:22:49,500

you see it

1553

01:22:55,500 --> 01:23:01,550

okay we are going to continue on

1554

01:23:01,560 --> 01:23:11,510

now we're going to

1555

01:23:16,850 --> 01:23:14,570

okay we're going to pad 60. the name of

1556

01:23:18,950 --> 01:23:16,860

this rocket is the advanced rocketry

1557

01:23:21,649 --> 01:23:18,960

Club out of the University of North

1558

01:23:24,169 --> 01:23:21,659

Dakota Grand Forks North Dakota

1559

01:23:25,610 --> 01:23:24,179

the name of this rocket is Cosmo so

1560

01:23:28,130 --> 01:23:25,620

you're going to probably hear some other

1561

01:23:29,590 --> 01:23:28,140

teams with the cosmos but this one is

1562

01:23:32,709 --> 01:23:29,600

Cosmo

1563

01:23:35,570 --> 01:23:32,719

42.3 pounds six inch diameter

1564

01:23:36,850 --> 01:23:35,580

8.67 feet tall it is flying on an

1565

01:23:39,669 --> 01:23:36,860

Aerotech

1566

01:23:45,350 --> 01:23:39,679

I1420 Redline

1567

01:23:49,729 --> 01:23:47,830

looks maybe like

1568

01:23:51,050 --> 01:23:49,739

5600 feet

1569

01:23:54,830 --> 01:23:51,060

I think that's what I'm reading here

1570

01:23:59,870 --> 01:23:56,450

um and then the name of this payload is

1571

01:24:02,209 --> 01:23:59,880

called obscura the whole um

1572

01:24:04,189 --> 01:24:02,219

their their whole payload is 3D printed

1573

01:24:06,890 --> 01:24:04,199

and it found out it weighs six kilograms

1574

01:24:08,330 --> 01:24:06,900

so it is a very heavy 3D printed payload

1575

01:24:09,350 --> 01:24:08,340

and the whole payload is in the nose

1576

01:24:11,570 --> 01:24:09,360

cone

1577

01:24:14,930 --> 01:24:11,580

and they painted they called it Cosmo

1578

01:24:16,970 --> 01:24:14,940

and painted it in that fashion but not

1579

01:24:18,890 --> 01:24:16,980

Cosmos because Ohio State University

1580

01:24:21,709 --> 01:24:18,900

called it that rocket so don't get those

1581

01:24:23,209 --> 01:24:21,719

mixed up the team did vote on this paint

1582

01:24:24,709 --> 01:24:23,219

job too so I guess with a lot of

1583

01:24:27,590 --> 01:24:24,719

deliberation that's what they settled on

1584

01:24:29,870 --> 01:24:27,600

for the paint jobs pad 60. we have a

1585

01:24:32,570 --> 01:24:29,880

clear sky we have a clear range we're

1586

01:24:37,390 --> 01:24:32,580

going to launch this one in five four

1587

01:24:39,410 --> 01:24:37,400

three two one ignition

1588

01:24:46,130 --> 01:24:39,420

[Music]

1589

01:24:49,610 --> 01:24:47,930

the crowd seem to be pretty impressed

1590

01:24:56,270 --> 01:24:49,620

with that one that's what those red

1591

01:25:01,490 --> 01:24:58,310

there's an event there's it's back up to

1592

01:25:03,649 --> 01:25:01,500

the main or the apogee

1593

01:25:10,970 --> 01:25:03,659

we could hear it I'd suggest maybe more

1594

01:25:10,980 --> 01:25:51,649

the mean on this one is set for 700 feet

1595

01:25:57,290 --> 01:25:54,110

oh there it is okay it should be

1596

01:25:59,330 --> 01:25:57,300

we should be pretty close to 700 now

1597

01:26:01,970 --> 01:25:59,340

there it is

1598

01:26:06,050 --> 01:26:01,980

now the parachute needs to open there it

1599

01:26:14,330 --> 01:26:08,390

okay we'll see if obscura can do its

1600

01:26:18,830 --> 01:26:16,790

so continuing on to pad number 61 that's

1601

01:26:21,950 --> 01:26:18,840

the yellow and blue rocket

1602

01:26:23,450 --> 01:26:21,960

this is the rocket box is what it looks

1603

01:26:26,270 --> 01:26:23,460

like it says from the University of

1604

01:26:30,229 --> 01:26:26,280

Tennessee in Chattanooga Tennessee

1605

01:26:33,770 --> 01:26:30,239

the name of this rocket is

1606

01:26:36,050 --> 01:26:33,780

this is a sick parvis Magna

1607

01:26:40,850 --> 01:26:36,060

greatness comes from Small Beginnings

1608

01:26:43,790 --> 01:26:40,860

okay the 25.8 pound rocket 5.15 inch

1609

01:26:47,530 --> 01:26:43,800

diameter six feet eight inches tall

1610

01:26:50,390 --> 01:26:47,540

this is flying on a CTI

1611

01:26:51,649 --> 01:26:50,400

k1440 white thunder so this is going to

1612

01:26:54,950 --> 01:26:51,659

be another one of those faster taking

1613

01:26:58,970 --> 01:26:54,960

off Motors it should go about 5 000 feet

1614

01:27:03,709 --> 01:26:58,980

I did notice this team is a a team of 10

1615

01:27:05,570 --> 01:27:03,719

team of 10 usually a rocket is no longer

1616

01:27:08,149 --> 01:27:05,580

painted they have to earn the paint job

1617

01:27:11,450 --> 01:27:08,159

but this one said it earned its paint

1618

01:27:13,550 --> 01:27:11,460

job but they put it in a wrap so I'm a

1619

01:27:16,310 --> 01:27:13,560

little confused and their approach to

1620

01:27:17,990 --> 01:27:16,320

finish and the payload isn't an acrylic

1621

01:27:21,169 --> 01:27:18,000

casing so that's pretty neat to see that

1622

01:27:23,930 --> 01:27:21,179

on pad number 61.

1623

01:27:28,010 --> 01:27:23,940

clear sky clear range we're going to

1624

01:27:31,070 --> 01:27:28,020

launch in five four three two one

1625

01:27:31,080 --> 01:27:39,950

that's the white Thunder for you

1626
01:27:44,390 --> 01:27:41,810
so that one's supposed to be at 5 000

1627
01:27:48,709 --> 01:27:44,400
feet I might do that

1628
01:27:54,590 --> 01:27:50,330
there's an event

1629
01:27:54,600 --> 01:28:03,350
then the main is set for 700 feet

1630
01:28:21,110 --> 01:28:05,450
still a few thousand feet up I can still

1631
01:28:27,290 --> 01:28:25,010
okay we're probably about 1500 feet out

1632
01:28:29,629 --> 01:28:27,300
this one main is set for 700 probably a

1633
01:28:32,090 --> 01:28:29,639
thousand feet right now should have an

1634
01:28:34,370 --> 01:28:32,100
event pretty soon there it is

1635
01:28:37,729 --> 01:28:34,380
parachute needs to open though that's

1636
01:28:41,090 --> 01:28:37,739
whoa little delay there trying to keep

1637
01:28:49,010 --> 01:28:42,530
all right

1638
01:28:54,649 --> 01:28:51,890

okay on pad 62

1639

01:28:57,530 --> 01:28:54,659

this is Society of Aeronautics and

1640

01:28:59,810 --> 01:28:57,540

rocketry University of South Florida and

1641

01:29:01,270 --> 01:28:59,820

Tampa Florida name of this rocket is

1642

01:29:06,410 --> 01:29:01,280

Bullseye

1643

01:29:09,770 --> 01:29:06,420

21.8 pounds 4.02 inch diameter 100 and

1644

01:29:12,169 --> 01:29:09,780

okay the length says 121 feet tall I

1645

01:29:14,330 --> 01:29:12,179

don't think it's 121 feet tall I'm just

1646

01:29:17,990 --> 01:29:14,340

reading the flight card

1647

01:29:19,910 --> 01:29:18,000

um this is flying on a k

1648

01:29:23,570 --> 01:29:19,920

wait a minute so

1649

01:29:24,950 --> 01:29:23,580

oh this is flying on a k780 maybe 4500

1650

01:29:26,750 --> 01:29:24,960

feet

1651
01:29:28,669 --> 01:29:26,760
and with this team I believe this might

1652
01:29:30,470 --> 01:29:28,679
be their first time here

1653
01:29:32,750 --> 01:29:30,480
their payload oh yeah I remember looking

1654
01:29:34,790 --> 01:29:32,760
at their payload they had a lot of

1655
01:29:37,070 --> 01:29:34,800
cables in it or repaired originate a lot

1656
01:29:40,129 --> 01:29:37,080
of cables they also used

1657
01:29:42,950 --> 01:29:40,139
get for the software encoding work the

1658
01:29:45,649 --> 01:29:42,960
payload can read radio signals based on

1659
01:29:47,870 --> 01:29:45,659
how the team set up the Arduino it was a

1660
01:29:50,510 --> 01:29:47,880
theory they tested and claimed it works

1661
01:29:52,610 --> 01:29:50,520
it does have elliptical fins and they do

1662
01:29:55,490 --> 01:29:52,620
have a scientific reasoning for using it

1663
01:29:56,510 --> 01:29:55,500

you'll have to check in with them on why

1664

01:29:58,370 --> 01:29:56,520

um

1665

01:30:01,610 --> 01:29:58,380

okay I think that's all the info so I'm

1666

01:30:03,470 --> 01:30:01,620

pad 62 we will watch Bullseye we have a

1667

01:30:06,770 --> 01:30:03,480

clear sky we have a clear range we're

1668

01:30:08,800 --> 01:30:06,780

going to launch in five four three two

1669

01:30:11,229 --> 01:30:08,810

one ignition

1670

01:30:15,290 --> 01:30:11,239

[Music]

1671

01:30:19,490 --> 01:30:17,689

a little whistle at the end of it

1672

01:30:22,790 --> 01:30:19,500

maybe that's why they use the elliptical

1673

01:30:27,890 --> 01:30:24,590

starting to Arc over

1674

01:30:32,209 --> 01:30:27,900

need the main at 600 feet

1675

01:30:34,550 --> 01:30:32,219

oh it's not looking good though

1676

01:30:41,030 --> 01:30:34,560

oh boy

1677

01:30:45,290 --> 01:30:42,709

so that one is now one with the Earth

1678

01:31:07,910 --> 01:30:45,300

unfortunately hopefully we can go find

1679

01:31:13,790 --> 01:31:11,930

okay on pad 63 this is Rogue Aerospace

1680

01:31:16,970 --> 01:31:13,800

New York University out of Brooklyn New

1681

01:31:19,070 --> 01:31:16,980

York the name of this rocket is Big Bird

1682

01:31:21,169 --> 01:31:19,080

so when Big Bert doesn't have a weight

1683

01:31:24,110 --> 01:31:21,179

doesn't have a diameter doesn't have a

1684

01:31:26,030 --> 01:31:24,120

length so it is unknown on all fronts

1685

01:31:27,830 --> 01:31:26,040

doesn't have a motor listed but I think

1686

01:31:31,910 --> 01:31:27,840

I know what the motor is it should be a

1687

01:31:32,689 --> 01:31:31,920

accessory I1050 it should go about 5000

1688

01:31:34,669 --> 01:31:32,699

feet

1689

01:31:37,129 --> 01:31:34,679
on the experiment information it's

1690

01:31:39,229 --> 01:31:37,139
called Little Bird this payload will

1691

01:31:43,129 --> 01:31:39,239
deploy with the launch vehicle recovery

1692

01:31:46,250 --> 01:31:43,139
system staying connected shot cord after

1693

01:31:48,709 --> 01:31:46,260
landing additionally with this team they

1694

01:31:50,689 --> 01:31:48,719
said it has a self-writing payload but

1695

01:31:52,070 --> 01:31:50,699
then they also said theoretically

1696

01:31:53,330 --> 01:31:52,080
hope it's a little better than

1697

01:31:55,729 --> 01:31:53,340
theoretically

1698

01:31:57,410 --> 01:31:55,739
I also did notice they have a 3D printed

1699

01:31:59,930 --> 01:31:57,420
shock plate don't know what that means

1700

01:32:02,090 --> 01:31:59,940
but it has one of those and this team

1701

01:32:04,090 --> 01:32:02,100

also has I thought pretty unique

1702

01:32:06,830 --> 01:32:04,100

matching uniforms in those kind of like

1703

01:32:08,629 --> 01:32:06,840

mechanic kind of Dickie style worker

1704

01:32:11,270 --> 01:32:08,639

shirts you have to go check out their uh

1705

01:32:13,669 --> 01:32:11,280

their style points there they did paint

1706

01:32:15,050 --> 01:32:13,679

the rocket in school colors they also

1707

01:32:19,550 --> 01:32:15,060

did

1708

01:32:22,189 --> 01:32:19,560

also painted the rabbit over the moon

1709

01:32:24,950 --> 01:32:22,199

and this year does Mark the year of the

1710

01:32:28,370 --> 01:32:24,960

rabbit which signifies good luck pretty

1711

01:32:30,530 --> 01:32:28,380

cool this team is have 30 members and 10

1712

01:32:35,450 --> 01:32:30,540

of them are here today

1713

01:32:40,010 --> 01:32:38,149

up being told there's a plane so if you

1714

01:32:42,110 --> 01:32:40,020

look West so over there you can see a

1715

01:32:44,209 --> 01:32:42,120

plane flying outbound

1716

01:32:45,890 --> 01:32:44,219

we don't want to fly when we see them

1717

01:33:16,729 --> 01:32:45,900

let them be out of the bound and then

1718

01:33:21,229 --> 01:33:19,490

we're still on hold we don't know what

1719

01:33:23,149 --> 01:33:21,239

the pile is doing the pilot maybe

1720

01:33:24,649 --> 01:33:23,159

doesn't know what it's doing just gonna

1721

01:33:26,209 --> 01:33:24,659

make sure the plane is clear and

1722

01:34:08,270 --> 01:33:26,219

outbound not coming our way or flying

1723

01:34:08,280 --> 01:34:14,149

we're gonna hold we see a

1724

01:34:19,669 --> 01:34:17,030

so I saw bird I saw a plane so shouldn't

1725

01:34:21,590 --> 01:34:19,679

Superman come in at any point

1726

01:34:23,750 --> 01:34:21,600

was that Batman I'm getting my

1727

01:34:25,129 --> 01:34:23,760

okay my superheroes all mixed up we're

1728

01:34:27,050 --> 01:34:25,139

just we're on a hold for just a moment

1729

01:35:08,810 --> 01:34:27,060

as the planes clear out of our viewing

1730

01:35:13,790 --> 01:35:11,209

okay planes are clear so now we can go

1731

01:35:17,090 --> 01:35:13,800

back to New York University with big

1732

01:35:19,729 --> 01:35:17,100

Burton little bird pad 63. we have a

1733

01:35:21,229 --> 01:35:19,739

clear sky we have a clear range planes

1734

01:35:26,450 --> 01:35:21,239

are now outbound we're gonna launch in

1735

01:35:33,530 --> 01:35:26,460

five four three two one ignition

1736

01:35:38,330 --> 01:35:35,930

nice boost on that one

1737

01:35:41,750 --> 01:35:38,340

supposed to go 5 000 feet

1738

01:35:41,760 --> 01:35:46,610

I'm hearing some Maybe not maybe close

1739

01:35:46,620 --> 01:35:56,629

okay there's an event

1740

01:35:56,639 --> 01:36:05,629

okay so it is under drug right now

1741

01:36:10,790 --> 01:36:08,209

so the mainly did not list on paper but

1742

01:36:17,330 --> 01:36:10,800

probably somewhere in that between 500

1743

01:36:39,169 --> 01:36:19,790

yep so we're still about a couple

1744

01:36:46,010 --> 01:36:42,110

so we're probably a thousand feet out

1745

01:36:57,530 --> 01:36:47,470

probably

1746

01:37:00,530 --> 01:36:57,540

for 500 feet oh

1747

01:37:05,750 --> 01:37:00,540

it's booster went right into the pair of

1748

01:37:05,760 --> 01:37:11,149

there's a story on that one

1749

01:37:11,159 --> 01:37:27,050

that rocket experienced all the emotions

1750

01:37:32,570 --> 01:37:30,590

okay on pad number 80. we have

1751

01:37:34,610 --> 01:37:32,580

UMass rocket team this is University of

1752

01:37:36,709 --> 01:37:34,620

Massachusetts Amherst and Amherst

1753

01:37:40,090 --> 01:37:36,719

Massachusetts name of this rocket is

1754

01:37:44,030 --> 01:37:40,100

Nemesis 46.7 pounds six inch diameter

1755

01:37:47,930 --> 01:37:44,040

8.9 feet tall does have a 3D printed

1756

01:37:51,530 --> 01:37:47,940

nose cone in booster also has a 3D

1757

01:37:53,810 --> 01:37:51,540

printed metal bulkhead I don't know how

1758

01:37:55,729 --> 01:37:53,820

they got their hands on a 3D printed

1759

01:37:58,430 --> 01:37:55,739

metal machine

1760

01:38:01,490 --> 01:37:58,440

I'd like access to that please okay the

1761

01:38:03,229 --> 01:38:01,500

remain is set for 600 feet

1762

01:38:05,990 --> 01:38:03,239

I didn't notice they had a lot of 3D

1763

01:38:08,570 --> 01:38:06,000

printed Parts their deployment did also

1764

01:38:10,189 --> 01:38:08,580

have a vertical lift system

1765

01:38:12,290 --> 01:38:10,199

and then oh this is the team that had

1766

01:38:14,750 --> 01:38:12,300

the one really small gear and the one

1767

01:38:16,669 --> 01:38:14,760

really big gear but did not know the

1768

01:38:17,870 --> 01:38:16,679

gear ratio so I'll have to check in on

1769

01:38:19,729 --> 01:38:17,880

what that is

1770

01:38:22,490 --> 01:38:19,739

we also had a their nose could have an

1771

01:38:25,850 --> 01:38:22,500

elliptical shape so it does not stick in

1772

01:38:27,530 --> 01:38:25,860

the ground they have 21 team members 13

1773

01:38:29,930 --> 01:38:27,540

of them are here

1774

01:38:31,790 --> 01:38:29,940

I also learned this team possibly might

1775

01:38:33,290 --> 01:38:31,800

have picked up the rocket in route of

1776

01:38:35,209 --> 01:38:33,300

coming here so I don't know what that

1777

01:38:38,450 --> 01:38:35,219

means they might have left it behind and

1778

01:38:43,310 --> 01:38:40,850

ah and then this is the team I did

1779

01:38:45,530 --> 01:38:43,320

notice they have the largest quick links

1780

01:38:47,510 --> 01:38:45,540

I've ever seen use I think they took the

1781

01:38:50,209 --> 01:38:47,520

one off their parents boat and put it on

1782

01:38:52,729 --> 01:38:50,219

the rocket but these are 6 000 these are

1783

01:38:54,290 --> 01:38:52,739

six thousand pound rated quick links so

1784

01:38:56,810 --> 01:38:54,300

if you need a quick link to tow

1785

01:39:01,010 --> 01:38:56,820

something after this event come see that

1786

01:39:03,530 --> 01:39:01,020

team on pad 80. we have a clear sky we

1787

01:39:07,070 --> 01:39:03,540

have a clear range on pad 80. we're

1788

01:39:11,450 --> 01:39:07,080

going to launch in five four three two

1789

01:39:11,460 --> 01:39:18,490

foreign

1790

01:39:23,990 --> 01:39:20,530

on the

1791

01:39:26,629 --> 01:39:24,000

11355 it should go about 4 200 feet I

1792

01:39:31,129 --> 01:39:28,970

yep it is arcing over

1793

01:39:35,510 --> 01:39:31,139

there's an event

1794

01:39:35,520 --> 01:39:40,550

main is set for 600 feet

1795

01:39:40,560 --> 01:40:15,169

pretty sure the quick links will hold

1796

01:40:20,330 --> 01:40:17,750

okay I see it it's probably right around

1797

01:40:22,550 --> 01:40:20,340

a thousand feet Maine is set for 600

1798

01:40:25,310 --> 01:40:22,560

feet on this one

1799

01:40:27,950 --> 01:40:25,320

there it is

1800

01:40:36,050 --> 01:40:27,960

okay parachutes out

1801

01:40:40,490 --> 01:40:38,330

okay looks like a good flight

1802

01:40:43,310 --> 01:40:40,500

yeah right off the oh I don't have to go

1803

01:40:45,830 --> 01:40:43,320

too far off of that to get that one

1804

01:40:48,530 --> 01:40:45,840

you can see it land right there okay

1805

01:40:50,330 --> 01:40:48,540

camp at 81 we have University of Miami

1806

01:40:54,110 --> 01:40:50,340

this is the

1807

01:40:56,810 --> 01:40:54,120

University of Miami Coral Gables Florida

1808

01:41:00,729 --> 01:40:56,820

name of this rocket is Ibis one

1809

01:41:04,129 --> 01:41:00,739

uh 46.02 pounds six inch diameter

1810

01:41:06,350 --> 01:41:04,139

10.25 feet tall

1811

01:41:08,530 --> 01:41:06,360

so this the name of this experiment is

1812

01:41:12,530 --> 01:41:08,540

called another acronym

1813

01:41:14,689 --> 01:41:12,540

socci the self-orienting camera control

1814

01:41:17,750 --> 01:41:14,699

instrument uses a looking Vault to

1815

01:41:20,689 --> 01:41:17,760

retain nose cone during flight scissor

1816

01:41:24,770 --> 01:41:20,699

lift pushes out camera pushes out camera

1817

01:41:28,729 --> 01:41:24,780

and nose nose off after landing this

1818

01:41:30,110 --> 01:41:28,739

rocket is flying on a cesarini I 1720

1819

01:41:33,229 --> 01:41:30,120

white thunder so this is going to be

1820

01:41:34,490 --> 01:41:33,239

another Punchy takeoff should go about 4

1821

01:41:35,629 --> 01:41:34,500

000 feet

1822

01:41:38,090 --> 01:41:35,639

um this team this is our first time

1823

01:41:39,770 --> 01:41:38,100

competing in recent history I noticed

1824

01:41:43,609 --> 01:41:39,780

when I looked at this rocket it had a

1825

01:41:45,290 --> 01:41:43,619

super long camera or sorry super long

1826

01:41:47,689 --> 01:41:45,300

um antenna it looks like it came off a

1827

01:41:49,070 --> 01:41:47,699

car possibly so I don't know if you took

1828

01:41:50,930 --> 01:41:49,080

it from a car or something I don't know

1829

01:41:53,149 --> 01:41:50,940

what happened with that they did paint

1830

01:41:55,189 --> 01:41:53,159

it in their school colors it is a 20

1831

01:41:58,070 --> 01:41:55,199

person team they also did mention they

1832

01:42:00,770 --> 01:41:58,080

had a lot of 4 am working nights so

1833

01:42:03,290 --> 01:42:00,780

hopefully that all has paid off pad 81

1834

01:42:21,830 --> 01:42:03,300

clear sky clear range we're launching in

1835

01:42:27,350 --> 01:42:24,410

starting to Arc over there's an event

1836

01:42:45,649 --> 01:42:27,360

there's its back up to the apogee uh oh

1837

01:42:49,550 --> 01:42:47,930

and you can still see the tracking smoke

1838

01:43:11,149 --> 01:42:49,560

on that one that's gonna go for some

1839

01:43:15,709 --> 01:43:13,370

okay so I guess this team is going for

1840

01:44:01,910 --> 01:43:15,719

the L parachute duration

1841

01:44:07,189 --> 01:44:03,649

so we're just gonna wait to make sure

1842

01:44:09,169 --> 01:44:07,199

the um that rocket is in a good spot for

1843

01:44:11,209 --> 01:44:09,179

us so that we can we have one more

1844

01:44:13,070 --> 01:44:11,219

rocket but then we're still gonna hold

1845

01:44:15,229 --> 01:44:13,080

because we've already got the backup

1846

01:44:16,970 --> 01:44:15,239

igniters and we'll put that one I

1847

01:44:18,410 --> 01:44:16,980

believe that was in temples Rockets so

1848

01:44:20,590 --> 01:44:18,420

we'll come back to we'll come back to

1849

01:44:25,310 --> 01:44:20,600

that one

1850

01:44:30,410 --> 01:44:27,649

okay well I'll start reading up to the

1851

01:44:33,410 --> 01:44:30,420

next the next one so this is the uh

1852

01:44:35,990 --> 01:44:33,420

charger rocket works on pad 82. this is

1853

01:44:37,970 --> 01:44:36,000

the oh I guess the team knows what their

1854

01:44:39,229 --> 01:44:37,980

name is that's good

1855

01:44:42,350 --> 01:44:39,239

I didn't even say which university

1856

01:44:43,370 --> 01:44:42,360

that's good University of Alabama in

1857

01:44:44,570 --> 01:44:43,380

Huntsville

1858

01:44:47,830 --> 01:44:44,580

and

1859

01:44:51,770 --> 01:44:47,840

the name of this rocket is Argo

1860

01:44:54,350 --> 01:44:51,780

55.6 pounds six inch in diameter 7.9

1861

01:44:58,490 --> 01:44:54,360

feet tall this does also have a jolly

1862

01:45:01,010 --> 01:44:58,500

logic it is ejected at apogee deploy is

1863

01:45:02,990 --> 01:45:01,020

at the main deploys at 700 feet

1864

01:45:04,970 --> 01:45:03,000

the name of the rocket is The Argonaut

1865

01:45:07,910 --> 01:45:04,980

or for the experiment information it is

1866

01:45:10,550 --> 01:45:07,920

a autonomous leveling platform for

1867

01:45:13,490 --> 01:45:10,560

imagery of the planetary surface

1868

01:45:15,370 --> 01:45:13,500

controlled by rafco

1869

01:45:19,850 --> 01:45:15,380

set

1870

01:45:22,790 --> 01:45:19,860

by NASA using aprs

1871

01:45:24,169 --> 01:45:22,800

being told or notified that we hear some

1872

01:45:30,050 --> 01:45:24,179

aircraft

1873

01:45:44,870 --> 01:45:33,050

yep it's out there going heading

1874

01:45:49,430 --> 01:45:46,790

so with this team I also did notice

1875

01:45:53,270 --> 01:45:49,440

they're flying on a cesaroni I 2375

1876

01:45:55,430 --> 01:45:53,280

should go about 5 000 feet that's they

1877

01:45:59,810 --> 01:45:55,440

the team also claimed this is called

1878

01:46:02,149 --> 01:45:59,820

p-cup technology p dash cup technology

1879

01:46:05,570 --> 01:46:02,159

they said it might be proprietary might

1880

01:46:08,390 --> 01:46:05,580

be trademarked who knows

1881

01:46:11,270 --> 01:46:08,400

um and with the name of this rock at the

1882

01:46:14,290 --> 01:46:11,280

Argo it they also had mentioned though

1883

01:46:17,870 --> 01:46:14,300

this says it ties into Greek mythology

1884

01:46:21,290 --> 01:46:17,880

nose cone from skilla

1885

01:46:23,870 --> 01:46:21,300

Grill skilla from Odyssey which is a

1886

01:46:27,530 --> 01:46:23,880

supernatural female creature with 12

1887

01:46:29,570 --> 01:46:27,540

feet and six heads in Long snakey necks

1888

01:46:32,510 --> 01:46:29,580

I don't know how they should how the

1889

01:46:34,910 --> 01:46:32,520

team settled on that but they did

1890

01:46:37,250 --> 01:46:34,920

um this team also did have a half inch

1891

01:46:39,470 --> 01:46:37,260

aluminum bulk plate I don't think he

1892

01:46:40,669 --> 01:46:39,480

needed it to be that thick but they did

1893

01:46:42,950 --> 01:46:40,679

that

1894

01:46:44,570 --> 01:46:42,960

they also learned about not putting rail

1895

01:46:47,030 --> 01:46:44,580

buttons in line with the altimeter

1896

01:46:48,770 --> 01:46:47,040

switches on their subscale flight don't

1897

01:46:51,169 --> 01:46:48,780

put those in the same line we've all

1898

01:46:54,050 --> 01:46:51,179

probably learned that the hard way

1899

01:46:56,510 --> 01:46:54,060

they also did mention they may have sent

1900

01:46:59,930 --> 01:46:56,520

the wrong version of their frr to the

1901

01:47:03,050 --> 01:46:59,940

NASA team they sent draft one draft one

1902

01:47:05,750 --> 01:47:03,060

included a lot of memes and a lot of

1903

01:47:07,669 --> 01:47:05,760

goofy stuff I guess so I'm sure our

1904

01:47:13,250 --> 01:47:07,679

business folks can relate if you send in

1905

01:47:18,590 --> 01:47:16,189

okay we're good we're on pad 82. clear

1906

01:47:21,669 --> 01:47:18,600

sky clear range we are going to launch

1907

01:47:26,450 --> 01:47:21,679

the University of Alabama in Huntsville

1908

01:47:33,290 --> 01:47:26,460

launching in five four three two one

1909

01:47:33,300 --> 01:47:39,590

I think I

1910

01:47:39,600 --> 01:47:44,689

so that one's supposed to go 5 000 feet

1911

01:47:52,310 --> 01:47:47,810

that's the LL 2375

1912

01:48:05,030 --> 01:47:55,129

just a really small drogue the main is

1913

01:48:05,040 --> 01:48:12,649

well

1914

01:48:17,689 --> 01:48:15,290

all right so now we are probably about a

1915

01:48:21,229 --> 01:48:17,699

thousand feet should have the main here

1916

01:48:24,649 --> 01:48:21,239

pretty soon probably 800 feet right now

1917

01:48:31,970 --> 01:48:24,659

the main is set for 700 feet

1918

01:48:36,530 --> 01:48:34,550

so we we're not going out range is still

1919

01:48:38,090 --> 01:48:36,540

closed right now we just have we're

1920

01:48:40,850 --> 01:48:38,100

putting in another igniter and we're

1921

01:49:27,530 --> 01:48:40,860

gonna recycle and fly this one

1922

01:49:31,729 --> 01:49:29,209

so as this one is just about to touch

1923

01:49:34,189 --> 01:49:31,739

down we're putting in another igniter

1924

01:49:37,189 --> 01:49:34,199

the team that had the uh

1925

01:49:39,950 --> 01:49:37,199

higher than normal descent rate came in

1926

01:49:42,050 --> 01:49:39,960

ballistic one Dart if you will send one

1927

01:49:44,689 --> 01:49:42,060

of your representatives up to the lco

1928

01:49:45,950 --> 01:49:44,699

desk or the RSO desk so for that team

1929

01:49:48,830 --> 01:49:45,960

that just had that one come in a little

1930

01:49:51,950 --> 01:49:48,840

quick very quick very very quick send

1931

01:49:54,410 --> 01:49:51,960

someone up to the lco or RSO desks which

1932

01:50:14,510 --> 01:49:54,420

wanted to have a quick debrief on that

1933

01:50:17,450 --> 01:50:16,010

so I want to make a quick announcement

1934

01:50:20,450 --> 01:50:17,460

there is a truck parked in the wrong

1935

01:50:22,609 --> 01:50:20,460

spot it is a dark gray F-150 with the

1936

01:50:25,129 --> 01:50:22,619

F-150 it looks like it's painted in the

1937

01:50:28,129 --> 01:50:25,139

American flag colors the license plate

1938

01:50:30,830 --> 01:50:28,139

47c9

1939

01:50:32,390 --> 01:50:30,840

four or six four C you're not parked in

1940

01:50:35,750 --> 01:50:32,400

the appropriate area

1941

01:50:39,470 --> 01:50:35,760

okay so the Ford F-150 with the license

1942

01:50:41,270 --> 01:50:39,480

plate four seven c nine six four C it's

1943

01:50:43,850 --> 01:50:41,280

a yellow plate I don't know what state

1944

01:50:45,530 --> 01:50:43,860

that is oh it's Alabama plate you're

1945

01:50:52,550 --> 01:50:45,540

parked in the wrong area you need to

1946

01:50:57,410 --> 01:50:54,530

you may or may not be told if you don't

1947

01:51:33,470 --> 01:50:59,450

so we're just putting in another igniter

1948

01:51:38,209 --> 01:51:35,750

since we're putting in the other we're

1949

01:51:40,070 --> 01:51:38,219

putting the neck and igniter right now

1950

01:51:41,629 --> 01:51:40,080

just want to say hello to those that are

1951

01:51:43,250 --> 01:51:41,639

online I'm kind of looking through the

1952

01:51:45,950 --> 01:51:43,260

phone and everyone's being nice and very

1953

01:51:48,770 --> 01:51:45,960

civilized on the chats and encouraging

1954

01:51:51,830 --> 01:51:48,780

words from from your team members and

1955

01:51:53,629 --> 01:51:51,840

your support from the University so nice

1956

01:54:04,669 --> 01:51:53,639

to see that everyone's being nice and

1957

01:54:09,830 --> 01:54:08,570

okay as the um away cell team is uh

1958

01:54:11,209 --> 01:54:09,840

putting a new igniter this is again

1959

01:54:14,209 --> 01:54:11,219

Temple University from Philadelphia

1960

01:54:16,850 --> 01:54:14,219

Pennsylvania name of this rock is Balboa

1961

01:54:21,290 --> 01:54:16,860

it's got the in-flight camera and 360

1962

01:54:24,169 --> 01:54:21,300

Imaging system IFL takes 360.

1963

01:54:27,350 --> 01:54:24,179

uh fov during flight ground camera

1964

01:54:28,729 --> 01:54:27,360

deploys and takes a series of photos of

1965

01:54:31,790 --> 01:54:28,739

the launch vehicles and surroundings

1966

01:54:33,609 --> 01:54:31,800

this is again on pad 41. it's flying on

1967

01:54:49,669 --> 01:54:33,619

the

1968

01:54:53,930 --> 01:54:49,679

we have a clear sky clear range new

1969

01:54:58,010 --> 01:54:53,940

igniter launching in five four three two

1970

01:55:04,850 --> 01:54:59,400

there it goes

1971

01:55:10,729 --> 01:55:07,629

so this one's supposed to go 4

1972

01:55:16,310 --> 01:55:10,739

935 feet

1973

01:55:16,320 --> 01:55:22,850

starting to Arc over there is an event

1974

01:55:27,430 --> 01:55:25,010

I hear the backup

1975

01:55:41,629 --> 01:55:27,440

main is set for

1976

01:55:54,189 --> 01:55:43,070

they were still probably about a couple

1977

01:55:54,199 --> 01:56:03,350

still probably maybe 1500

1978

01:56:03,360 --> 01:56:09,229

should be now about a thousand

1979

01:56:13,970 --> 01:56:11,149

should be just under a thousand and

1980

01:56:15,410 --> 01:56:13,980

we're the main is set for 650 feet there

1981

01:56:18,590 --> 01:56:15,420

it is

1982

01:56:20,390 --> 01:56:18,600

usually the parachute opens

1983

01:56:22,609 --> 01:56:20,400

I hope you did not leave it rubber band

1984

01:56:24,830 --> 01:56:22,619

bound up because that's what that might

1985

01:56:26,330 --> 01:56:24,840

look like

1986

01:56:28,250 --> 01:56:26,340

okay everyone give yourselves a hand we

1987

01:56:30,350 --> 01:56:28,260

got through that first that first uh

1988

01:56:32,570 --> 01:56:30,360

volley so we're a third way there nice

1989

01:56:35,030 --> 01:56:32,580

work so team when you're recovering your

1990

01:56:37,070 --> 01:56:35,040

Rockets make sure that stuff is going

1991

01:56:39,410 --> 01:56:37,080

you stay outside there's everything

1992

01:56:42,129 --> 01:56:39,420

marked around the perimeter you'll see

1993

01:56:44,750 --> 01:56:42,139

orange or yellow

1994

01:56:46,609 --> 01:56:44,760

markings around the perimeter so if

1995

01:56:48,229 --> 01:56:46,619

you're still out there well we're

1996

01:56:49,970 --> 01:56:48,239

starting to launch the second volley you

1997

01:56:52,850 --> 01:56:49,980

have to stay outside of that range

1998

01:56:55,310 --> 01:56:52,860

coming back in

1999

01:57:02,290 --> 01:56:55,320

oh you have to go outside to get it

2000

01:57:07,669 --> 01:57:05,390

of rockets 17 Rockets to take into the

2001

01:57:09,950 --> 01:57:07,679

air hey just a reminder we are live with

2002

01:57:11,870 --> 01:57:09,960

you on YouTube and Facebook make sure if

2003

01:57:13,370 --> 01:57:11,880

you have any questions uh make sure to

2004

01:57:14,930 --> 01:57:13,380

comment those and we'll try to get to

2005

01:57:16,910 --> 01:57:14,940

them on air also give us a shout out

2006

01:57:18,709 --> 01:57:16,920

where are you from who what team are you

2007

01:57:20,990 --> 01:57:18,719

pulling for I can tell you one of the

2008

01:57:22,910 --> 01:57:21,000

teams that I'm with now it's truly an

2009

01:57:25,970 --> 01:57:22,920

honor for me to be here with the United

2010

01:57:27,589 --> 01:57:25,980

States Military Academy y'all how are

2011

01:57:30,050 --> 01:57:27,599

you feeling today after seeing those

2012

01:57:31,310 --> 01:57:30,060

first launches coming we're doing great

2013

01:57:33,290 --> 01:57:31,320

sir so first of all thank you for having

2014

01:57:34,609 --> 01:57:33,300

us here it's been a long journey but

2015

01:57:36,169 --> 01:57:34,619

after seeing those Rockets take off

2016

01:57:38,030 --> 01:57:36,179

we're more excited than we've ever been

2017

01:57:40,010 --> 01:57:38,040

we're confident in our system we're

2018

01:57:41,990 --> 01:57:40,020

ready to watch you fly so you guys are

2019

01:57:43,609 --> 01:57:42,000

launching later in the day how do you

2020

01:57:45,290 --> 01:57:43,619

think your Rocket's gonna do compared to

2021

01:57:47,450 --> 01:57:45,300

these other ones that we just saw

2022

01:57:49,609 --> 01:57:47,460

so we've seen some of the way that teams

2023

01:57:51,290 --> 01:57:49,619

have formula Solutions the problems that

2024

01:57:53,030 --> 01:57:51,300

you've given us and we can definitely

2025

01:57:55,070 --> 01:57:53,040

say our rocket is going to perform a lot

2026

01:57:56,450 --> 01:57:55,080

faster than most of these teams you know

2027

01:57:58,129 --> 01:57:56,460

we're in the Army we like to move fast

2028

01:58:00,290 --> 01:57:58,139

so we're going to definitely give you a

2029

01:58:02,089 --> 01:58:00,300

show and you know seeing some of the

2030

01:58:03,649 --> 01:58:02,099

failures we're slightly nervous but

2031

01:58:05,450 --> 01:58:03,659

having tested our system over four times

2032

01:58:07,070 --> 01:58:05,460

having double checked triple checked

2033

01:58:09,350 --> 01:58:07,080

everything we know our stuff is going to

2034

01:58:11,270 --> 01:58:09,360

work excellent so lots of testing lots

2035

01:58:12,830 --> 01:58:11,280

of preparation went into this you guys

2036

01:58:14,330 --> 01:58:12,840

are launching later today talk to us

2037

01:58:16,729 --> 01:58:14,340

about the payload challenge how did you

2038

01:58:18,890 --> 01:58:16,739

guys tackle uh the requirements given to

2039

01:58:21,410 --> 01:58:18,900

you by the NASA challenge

2040

01:58:23,209 --> 01:58:21,420

so our payload is a cylindrical

2041

01:58:25,310 --> 01:58:23,219

payload that actually unlike a lot of

2042

01:58:27,470 --> 01:58:25,320

the teams here leaves the body tube when

2043

01:58:29,270 --> 01:58:27,480

it deploys from the main oh what happens

2044

01:58:30,950 --> 01:58:29,280

then is the payload then reaches the

2045

01:58:33,050 --> 01:58:30,960

ground and then pushes itself upright

2046

01:58:34,790 --> 01:58:33,060

using some self-riding legs uh we have

2047

01:58:36,410 --> 01:58:34,800

an onboard gyroscope on there to be able

2048

01:58:38,810 --> 01:58:36,420

to correct any orientation errors we

2049

01:58:40,430 --> 01:58:38,820

have and it can retract and re-extend

2050

01:58:42,530 --> 01:58:40,440

depending on the orientation where it's

2051
01:58:43,850 --> 01:58:42,540
at now if that doesn't work it can go up

2052
01:58:45,470 --> 01:58:43,860
to a maximum of three times before it

2053
01:58:47,089 --> 01:58:45,480
locks out in the extended position and

2054
01:58:49,189 --> 01:58:47,099
then it goes on to the RF Imaging

2055
01:58:51,530 --> 01:58:49,199
sequence so our payload is supposed to

2056
01:58:53,810 --> 01:58:51,540
be designed to be able to be deployed on

2057
01:58:55,189 --> 01:58:53,820
mass say like in a potential lunar

2058
01:58:56,930 --> 01:58:55,199
lander situation A Mars Landing

2059
01:58:58,850 --> 01:58:56,940
situation we can deploy these payloads

2060
01:59:01,010 --> 01:58:58,860
like cubesats that serve a potential

2061
01:59:03,470 --> 01:59:01,020
Landing sites and get a ground level

2062
01:59:05,930 --> 01:59:03,480
view of where we might potentially land

2063
01:59:08,209 --> 01:59:05,940

okay that's freaking awesome I love that

2064

01:59:09,410 --> 01:59:08,219

guys tell us what the experience has

2065

01:59:11,330 --> 01:59:09,420

been like I know you guys have had some

2066

01:59:12,169 --> 01:59:11,340

challenges just to get here to launch

2067

01:59:13,910 --> 01:59:12,179

day

2068

01:59:15,530 --> 01:59:13,920

right sir so one of the biggest things

2069

01:59:17,810 --> 01:59:15,540

you have to overcome is this is our

2070

01:59:19,609 --> 01:59:17,820

first year ever doing student launch at

2071

01:59:21,169 --> 01:59:19,619

the Academy so we did not have really

2072

01:59:22,669 --> 01:59:21,179

the organizations to fully support this

2073

01:59:24,109 --> 01:59:22,679

we haven't done this before so

2074

01:59:26,270 --> 01:59:24,119

thankfully some other teams have helped

2075

01:59:27,890 --> 01:59:26,280

us out to get our Rockets here and we're

2076

01:59:29,990 --> 01:59:27,900

able to fly down the cadets from West

2077

01:59:32,030 --> 01:59:30,000

Point but it's also been a challenge of

2078

01:59:33,169 --> 01:59:32,040

you know repeatedly testing the stuff

2079

01:59:35,330 --> 01:59:33,179

and just going out there and learning

2080

01:59:37,310 --> 01:59:35,340

like hey we never learned these lessons

2081

01:59:39,229 --> 01:59:37,320

before we've had so many failures that

2082

01:59:41,510 --> 01:59:39,239

we've taken into our later designs and

2083

01:59:43,070 --> 01:59:41,520

now we know what to do so all that

2084

01:59:44,990 --> 01:59:43,080

learning that's taking these teams

2085

01:59:47,330 --> 01:59:45,000

Decades of student launch competitions

2086

01:59:50,149 --> 01:59:47,340

we've done within an eight-month period

2087

01:59:52,070 --> 01:59:50,159

and we're here to compete as strong as

2088

01:59:54,530 --> 01:59:52,080

they are that's awesome you know Homer

2089

01:59:55,790 --> 01:59:54,540

Hickam the famous rocket boy called it a

2090

01:59:57,050 --> 01:59:55,800

book of knowledge it certainly sounds

2091

01:59:58,669 --> 01:59:57,060

like you guys have built that Book of

2092

01:59:59,930 --> 01:59:58,679

Knowledge anybody back home you want to

2093

02:00:01,669 --> 01:59:59,940

make sure you give a shout out to or

2094

02:00:03,470 --> 02:00:01,679

think right so obviously want to thank

2095

02:00:04,790 --> 02:00:03,480

the academy for supporting us all the

2096

02:00:06,589 --> 02:00:04,800

five departments that came together as

2097

02:00:10,669 --> 02:00:06,599

well as the kid advisors and most

2098

02:00:13,250 --> 02:00:10,679

importantly Go Army Navy there you have

2099

02:00:15,350 --> 02:00:13,260

the United States Military Academy our

2100

02:00:17,270 --> 02:00:15,360

future soldiers making sure that we stay

2101
02:00:19,310 --> 02:00:17,280
safe and making sure that we can explore

2102
02:00:23,570 --> 02:00:19,320
like we've always dreamed of let's send

2103
02:00:27,589 --> 02:00:25,609
thanks will I am here with the project

2104
02:00:29,270 --> 02:00:27,599
manager manager of the University of

2105
02:00:31,490 --> 02:00:29,280
Alabama team please introduce yourself

2106
02:00:33,770 --> 02:00:31,500
and tell us your major hi my name is

2107
02:00:35,510 --> 02:00:33,780
sundo belki I'm Indian by origin but I

2108
02:00:37,609 --> 02:00:35,520
was born and raised in Qatar and I'm an

2109
02:00:39,169 --> 02:00:37,619
aerospace engineer awesome so how did

2110
02:00:41,330 --> 02:00:39,179
the launch go today how's the team doing

2111
02:00:43,609 --> 02:00:41,340
the team is doing great the launch went

2112
02:00:45,350 --> 02:00:43,619
fantastic yeah awesome I saw the launch

2113
02:00:47,149 --> 02:00:45,360

went a little bit far out into the tree

2114

02:00:49,550 --> 02:00:47,159

so is your team busy retrieving it right

2115

02:00:51,470 --> 02:00:49,560

now yep right now we're on our way to go

2116

02:00:52,729 --> 02:00:51,480

retrieve a rocket um it was lodged

2117

02:00:54,589 --> 02:00:52,739

between the trees so that's gonna be a

2118

02:00:55,910 --> 02:00:54,599

challenge but we're glad that the launch

2119

02:00:57,290 --> 02:00:55,920

went well and it was recovered

2120

02:00:59,689 --> 02:00:57,300

successfully yeah absolutely

2121

02:01:01,189 --> 02:00:59,699

congratulations on that so throughout

2122

02:01:03,890 --> 02:01:01,199

the season did your team face any

2123

02:01:05,990 --> 02:01:03,900

certain challenges or difficulties yes

2124

02:01:07,729 --> 02:01:06,000

we had um you know a plethora of

2125

02:01:10,370 --> 02:01:07,739

different challenges that came in our

2126
02:01:12,470 --> 02:01:10,380
way beginning at the in the beginning of

2127
02:01:14,330 --> 02:01:12,480
the school year our advisor sadly passed

2128
02:01:16,669 --> 02:01:14,340
away and so you know it was a challenge

2129
02:01:18,830 --> 02:01:16,679
to go find a new advisor and make sure

2130
02:01:21,530 --> 02:01:18,840
the team was taken care of in the new

2131
02:01:23,870 --> 02:01:21,540
advisor's hands we also were set back

2132
02:01:26,030 --> 02:01:23,880
because there was a fire in a Design Lab

2133
02:01:27,410 --> 02:01:26,040
that was very close to our lab and so we

2134
02:01:29,390 --> 02:01:27,420
had to make sure that that was taken

2135
02:01:30,649 --> 02:01:29,400
care of and we had to revise our safety

2136
02:01:33,589 --> 02:01:30,659
standards to make sure they were you

2137
02:01:34,910 --> 02:01:33,599
know up to date apart from that we also

2138
02:01:38,030 --> 02:01:34,920

had a lot of challenges in terms of

2139

02:01:39,830 --> 02:01:38,040

weather and being able to fly on time to

2140

02:01:42,109 --> 02:01:39,840

make sure that we met the deadline said

2141

02:01:44,030 --> 02:01:42,119

by NASA but overall the team trudged

2142

02:01:46,189 --> 02:01:44,040

through and did a great job and I'm so

2143

02:01:47,870 --> 02:01:46,199

proud of everyone yeah absolutely

2144

02:01:49,129 --> 02:01:47,880

sometimes you know rocket is a design

2145

02:01:51,109 --> 02:01:49,139

and competitions come with a lot of

2146

02:01:53,750 --> 02:01:51,119

adversities and challenges but it seems

2147

02:01:57,310 --> 02:01:53,760

like you guys are super resilient so

2148

02:02:04,189 --> 02:01:59,930

I'm talking

2149

02:02:04,199 --> 02:02:08,990

women are just like

2150

02:02:09,000 --> 02:02:11,830

um

2151

02:02:11,840 --> 02:02:31,250

you see did you join the team

2152

02:02:35,030 --> 02:02:33,169

yeah

2153

02:02:37,669 --> 02:02:35,040

hey everyone I'm here with Central

2154

02:02:39,410 --> 02:02:37,679

Washington uh their rocket hasn't flown

2155

02:02:40,669 --> 02:02:39,420

yet so talk to us what's going through

2156

02:02:42,830 --> 02:02:40,679

your mind now that you've seen the first

2157

02:02:44,450 --> 02:02:42,840

volley of rockets go I'm feeling really

2158

02:02:45,950 --> 02:02:44,460

good about it we've had nice straight

2159

02:02:47,870 --> 02:02:45,960

flights everything's been well for us

2160

02:02:49,430 --> 02:02:47,880

seeing that lawn dart made me a little

2161

02:02:50,450 --> 02:02:49,440

bit nervous but we're not going to do

2162

02:02:52,310 --> 02:02:50,460

that we're going to have a gorgeous

2163

02:02:53,990 --> 02:02:52,320

flight so our view for our viewers back

2164

02:02:56,149 --> 02:02:54,000

home who may not be super familiar with

2165

02:02:58,609 --> 02:02:56,159

rocketry what would cost something like

2166

02:03:00,050 --> 02:02:58,619

a lot and I know it's speculation but if

2167

02:03:01,250 --> 02:03:00,060

your rocket were to do that what's kind

2168

02:03:02,209 --> 02:03:01,260

of your first thought that you're going

2169

02:03:03,890 --> 02:03:02,219

what's the first thing you're going to

2170

02:03:05,930 --> 02:03:03,900

go look for my first thought is going to

2171

02:03:07,370 --> 02:03:05,940

be Electronics a faulty altimeter or a

2172

02:03:09,589 --> 02:03:07,380

faulty connection maybe something that

2173

02:03:10,910 --> 02:03:09,599

got pulled out we've done enough testing

2174

02:03:12,169 --> 02:03:10,920

with our ejection charges we know

2175

02:03:14,270 --> 02:03:12,179

they're the right size to get that

2176
02:03:15,530 --> 02:03:14,280
parachute out but if for some reason the

2177
02:03:17,629 --> 02:03:15,540
electronics failed us and it didn't

2178
02:03:19,790 --> 02:03:17,639
deploy that that would be my guess it's

2179
02:03:21,530 --> 02:03:19,800
always a bad day to see it so talk to us

2180
02:03:23,330 --> 02:03:21,540
about your rock how tall is it how did

2181
02:03:25,010 --> 02:03:23,340
you tackle this payload challenge it's a

2182
02:03:28,010 --> 02:03:25,020
camera I understand that has to take

2183
02:03:34,669 --> 02:03:28,020
signals from a NASA Tower yeah

2184
02:03:38,149 --> 02:03:36,649
10 Periscope so it'll push the nose cone

2185
02:03:40,370 --> 02:03:38,159
off the camera comes on out and it does

2186
02:03:41,450 --> 02:03:40,380
its little spin around oh that's cool so

2187
02:03:44,689 --> 02:03:41,460
coming all the way from Washington

2188
02:03:46,250 --> 02:03:44,699

that's a long way from North Alabama how

2189

02:03:47,750 --> 02:03:46,260

has it been like trying to get down here

2190

02:03:49,609 --> 02:03:47,760

getting your rocket your payload here

2191

02:03:52,189 --> 02:03:49,619

what's that experience been like for you

2192

02:03:54,109 --> 02:03:52,199

all you know actually really fun TSA has

2193

02:03:55,729 --> 02:03:54,119

been very nice to us and we managed to

2194

02:03:57,790 --> 02:03:55,739

fly it took about an hour to to convince

2195

02:04:00,229 --> 02:03:57,800

him but they let us take it on the plane

2196

02:04:01,850 --> 02:04:00,239

it's kind of a challenge getting out

2197

02:04:03,290 --> 02:04:01,860

it's a two-hour drive to the airport six

2198

02:04:06,109 --> 02:04:03,300

hour flight down here and then a three

2199

02:04:07,490 --> 02:04:06,119

hour drive to Alabama but we got here we

2200

02:04:09,229 --> 02:04:07,500

were in good spirits and we're happy to

2201
02:04:11,089 --> 02:04:09,239
be here now I hope your test flight

2202
02:04:13,910 --> 02:04:11,099
areas were a little bit closer right

2203
02:04:17,810 --> 02:04:13,920
yeah I think the closest was uh we had

2204
02:04:20,990 --> 02:04:19,430
I feel we put a lot of dedication a lot

2205
02:04:22,970 --> 02:04:21,000
of work and a lot of travel to be here

2206
02:04:24,470 --> 02:04:22,980
anybody you want it back home you want

2207
02:04:25,790 --> 02:04:24,480
to thank any professors anybody that

2208
02:04:27,950 --> 02:04:25,800
helped make this happen for you guys

2209
02:04:29,629 --> 02:04:27,960
absolutely we want to do a big shout out

2210
02:04:31,189 --> 02:04:29,639
to the Washington Space Grant they gave

2211
02:04:32,870 --> 02:04:31,199
us the money to do this we would not be

2212
02:04:34,310 --> 02:04:32,880
able to do it without them the physics

2213
02:04:36,290 --> 02:04:34,320

department has been a big help at our

2214

02:04:37,370 --> 02:04:36,300

school Central Washington University the

2215

02:04:40,070 --> 02:04:37,380

engineering department has been

2216

02:04:41,510 --> 02:04:40,080

incredible and every Stu school that

2217

02:04:42,830 --> 02:04:41,520

we've reached out to to do our stem we

2218

02:04:44,390 --> 02:04:42,840

love you guys too

2219

02:04:46,250 --> 02:04:44,400

that's awesome well that is central

2220

02:04:49,370 --> 02:04:46,260

Washington and to all the mentors all

2221

02:04:50,990 --> 02:04:49,380

the sponsors everybody back home uh we

2222

02:04:53,390 --> 02:04:51,000

truly thank you

2223

02:04:54,830 --> 02:04:53,400

um now we are looking at getting the

2224

02:04:57,350 --> 02:04:54,840

Rockets ready

2225

02:04:58,669 --> 02:04:57,360

to go and we're going to bring Wayne

2226

02:05:01,010 --> 02:04:58,679

back in

2227

02:05:02,689 --> 02:05:01,020

to uh to tell us what's going on next

2228

02:05:04,970 --> 02:05:02,699

Lane

2229

02:05:06,530 --> 02:05:04,980

we have UCF behind us ready to be

2230

02:05:08,870 --> 02:05:06,540

interviewed but then we're gonna have a

2231

02:05:11,209 --> 02:05:08,880

next uh Folly of launches so bye guys

2232

02:05:13,850 --> 02:05:11,219

thank you so much for talking with us

2233

02:05:16,430 --> 02:05:13,860

I'm gonna bring in UCF come on guys this

2234

02:05:18,109 --> 02:05:16,440

is live TV so far knows we have little

2235

02:05:20,149 --> 02:05:18,119

little bumbles here we sure appreciate

2236

02:05:22,189 --> 02:05:20,159

you joining us we also got some Rockets

2237

02:05:24,050 --> 02:05:22,199

coming down getting ready for the next

2238

02:05:26,510 --> 02:05:24,060

volley it is the Auburn rocket yes

2239

02:05:30,530 --> 02:05:26,520

earlier today that hand -picked rocket

2240

02:05:34,430 --> 02:05:32,390

all right so here with us we have the

2241

02:05:35,750 --> 02:05:34,440

University of Central Florida uh please

2242

02:05:37,490 --> 02:05:35,760

introduce yourself and tell us your

2243

02:05:38,870 --> 02:05:37,500

major hi my name is emila Pereira I'm an

2244

02:05:40,850 --> 02:05:38,880

aerospace and dream major of a minor in

2245

02:05:42,109 --> 02:05:40,860

computer science awesome how is the

2246

02:05:44,149 --> 02:05:42,119

energy in the team today are you guys

2247

02:05:45,709 --> 02:05:44,159

excited oh all 37 of us are excited

2248

02:05:47,149 --> 02:05:45,719

sadly only got these 10 guys here right

2249

02:05:48,589 --> 02:05:47,159

now but everyone's been pumped we've

2250

02:05:50,750 --> 02:05:48,599

been planning this for almost a year now

2251
02:05:51,830 --> 02:05:50,760
awesome so tell me you were telling me a

2252
02:05:53,390 --> 02:05:51,840
little bit early about some challenges

2253
02:05:54,830 --> 02:05:53,400
and difficulties you face so tell me

2254
02:05:56,270 --> 02:05:54,840
about that yeah so this is our first

2255
02:05:57,709 --> 02:05:56,280
year as an organization actually doing

2256
02:05:59,330 --> 02:05:57,719
this event we've had two really

2257
02:06:00,589 --> 02:05:59,340
noticeable failures the first one was

2258
02:06:02,629 --> 02:06:00,599
our vehicle demonstration flight where

2259
02:06:04,370 --> 02:06:02,639
our drogue did not catch wind and we

2260
02:06:06,410 --> 02:06:04,380
actually hit the ground at 150 feet per

2261
02:06:08,270 --> 02:06:06,420
second we had to dig out the rocket

2262
02:06:10,430 --> 02:06:08,280
using shovels we actually reached the

2263
02:06:12,050 --> 02:06:10,440

clay layer using that the other more

2264

02:06:13,310 --> 02:06:12,060

interesting one is that on our payload

2265

02:06:15,050 --> 02:06:13,320

demonstration flight everything went

2266

02:06:17,450 --> 02:06:15,060

according to plan however there's a 20

2267

02:06:19,550 --> 02:06:17,460

foot wide canal in our 2200 foot drift

2268

02:06:21,350 --> 02:06:19,560

radius and we just so happened to land

2269

02:06:22,910 --> 02:06:21,360

with our drug on One Tree on the other

2270

02:06:24,290 --> 02:06:22,920

side I made another and right in the

2271

02:06:26,330 --> 02:06:24,300

middle thousand dollars of electronics

2272

02:06:27,589 --> 02:06:26,340

yeah well it's still good to see you

2273

02:06:29,689 --> 02:06:27,599

guys here today you guys obviously

2274

02:06:31,070 --> 02:06:29,699

overcame everything you had to I'm

2275

02:06:33,229 --> 02:06:31,080

learning that so many teams are

2276

02:06:35,450 --> 02:06:33,239

resilient have to come overcome so much

2277

02:06:37,310 --> 02:06:35,460

so is there anyone you want to thank or

2278

02:06:38,629 --> 02:06:37,320

shout out today definitely my other

2279

02:06:39,890 --> 02:06:38,639

manager Nathan he's the infrastructure

2280

02:06:41,629 --> 02:06:39,900

manager he's helped me a lot and then my

2281

02:06:43,129 --> 02:06:41,639

team so I have a lot of my leads here

2282

02:06:44,629 --> 02:06:43,139

and just a lot of my members we're

2283

02:06:46,790 --> 02:06:44,639

actually all mostly freshmen and

2284

02:06:49,070 --> 02:06:46,800

sophomores so these guys have done

2285

02:06:50,750 --> 02:06:49,080

amazing like of entirely as Brad body

2286

02:06:53,330 --> 02:06:50,760

tube entirely as Brad payload the things

2287

02:06:54,410 --> 02:06:53,340

these guys are doing is awesome I had I

2288

02:06:55,910 --> 02:06:54,420

made the mistake of doubting them at

2289

02:06:57,709 --> 02:06:55,920

first and they've constantly exceeded my

2290

02:06:59,689 --> 02:06:57,719

expectations and I'm more than proud of

2291

02:07:00,830 --> 02:06:59,699

them yeah that's awesome so it's your

2292

02:07:02,330 --> 02:07:00,840

first time here at the challenge in

2293

02:07:04,490 --> 02:07:02,340

person yep all my first time doing

2294

02:07:05,870 --> 02:07:04,500

rocketry actually okay awesome so what

2295

02:07:08,030 --> 02:07:05,880

advice would you give for a new team

2296

02:07:09,950 --> 02:07:08,040

that might join next year so definitely

2297

02:07:11,030 --> 02:07:09,960

take those leadership positions and just

2298

02:07:12,770 --> 02:07:11,040

be resilient you're gonna hit a lot of

2299

02:07:14,270 --> 02:07:12,780

roadblocks but the one thing I noticed a

2300

02:07:15,830 --> 02:07:14,280

lot of new people are afraid to be your

2301

02:07:17,750 --> 02:07:15,840

managers or be leads in their clubs

2302

02:07:19,729 --> 02:07:17,760

definitely take those roles you will

2303

02:07:21,530 --> 02:07:19,739

definitely supersede your expectations

2304

02:07:23,030 --> 02:07:21,540

awesome was there anything else you want

2305

02:07:24,950 --> 02:07:23,040

to touch on today or are you guys just

2306

02:07:26,930 --> 02:07:24,960

ready to launch look into the night's

2307

02:07:28,550 --> 02:07:26,940

experimental rocketry guys thank you

2308

02:07:31,370 --> 02:07:28,560

yeah thank you so much good luck today

2309

02:07:32,689 --> 02:07:31,380

guys thank you

2310

02:07:34,970 --> 02:07:32,699

all right

2311

02:07:36,070 --> 02:07:34,980

so well what's next

2312

02:07:37,910 --> 02:07:36,080

a

2313

02:07:41,390 --> 02:07:37,920

2200 foot

2314

02:07:44,030 --> 02:07:41,400

uh landing area and they hit the 20-foot

2315

02:07:46,129 --> 02:07:44,040

Canal hey it's a hole in one if you ask

2316

02:07:48,109 --> 02:07:46,139

me oh yes we're gonna be bringing in

2317

02:07:50,330 --> 02:07:48,119

Alyssa Lee one of our social media

2318

02:07:54,050 --> 02:07:50,340

experts she's going to give us a social

2319

02:07:55,310 --> 02:07:54,060

update all right Alyssa what's been

2320

02:07:56,570 --> 02:07:55,320

going on you've been out here watching

2321

02:07:58,310 --> 02:07:56,580

the Rockets you've been engaging with

2322

02:08:00,109 --> 02:07:58,320

the teams uh what's going on in the

2323

02:08:01,490 --> 02:08:00,119

social world

2324

02:08:05,089 --> 02:08:01,500

watch on the social side we are

2325

02:08:08,330 --> 02:08:06,770

join the conversation by using the

2326

02:08:10,850 --> 02:08:08,340

hashtag student launch we're answering

2327

02:08:12,229 --> 02:08:10,860

questions as much as we can online but

2328

02:08:14,030 --> 02:08:12,239

we love seeing the comments come through

2329

02:08:15,470 --> 02:08:14,040

people are cheering for their teams we

2330

02:08:17,330 --> 02:08:15,480

love seeing where people are watching

2331

02:08:19,250 --> 02:08:17,340

from we've got some people watching from

2332

02:08:20,930 --> 02:08:19,260

different countries even so it's really

2333

02:08:22,490 --> 02:08:20,940

cool to see you all tuned in

2334

02:08:24,050 --> 02:08:22,500

so a huge shout out to all of our

2335

02:08:26,030 --> 02:08:24,060

viewers we love bringing this broadcast

2336

02:08:28,010 --> 02:08:26,040

to you we love that you are engaging

2337

02:08:29,450 --> 02:08:28,020

with us in this conversation cheering on

2338

02:08:32,030 --> 02:08:29,460

your teams letting us know where you're

2339

02:08:34,070 --> 02:08:32,040

from now as you can see our next teams

2340

02:08:36,350 --> 02:08:34,080

are setting up their Rockets our first

2341

02:08:38,330 --> 02:08:36,360

teams are recovering their rockets and

2342

02:08:39,950 --> 02:08:38,340

operating their payloads so we're going

2343

02:08:41,330 --> 02:08:39,960

to send you their wide shot we're going

2344

02:08:44,030 --> 02:08:41,340

to be back with you before the next

2345

02:08:46,189 --> 02:08:44,040

volley of rocket launches so stay tuned

2346

02:08:48,410 --> 02:08:46,199

with us we are live from brag farms in

2347

02:08:49,970 --> 02:08:48,420

Tony Alabama for the 2023 NASA student

2348

02:08:53,510 --> 02:08:49,980

launch finale we'll be back with you

2349

02:08:53,520 --> 02:10:36,229

thanks listen

2350

02:10:36,239 --> 02:11:13,430

okay

2351
02:11:17,450 --> 02:11:15,169
so you can see we're starting to set up

2352
02:11:19,070 --> 02:11:17,460
for volley too it'll be a little bit but

2353
02:11:20,870 --> 02:11:19,080
there all the teams are out there

2354
02:11:22,250 --> 02:11:20,880
they're getting set up

2355
02:11:23,930 --> 02:11:22,260
um for that truck that's still not

2356
02:11:28,070 --> 02:11:23,940
parked in the right spot that's that

2357
02:11:31,010 --> 02:11:28,080
gray Ford F-150 with the Alabama plates

2358
02:11:33,229 --> 02:11:31,020
I think the truck is owned by Clint Ross

2359
02:11:37,490 --> 02:11:33,239
So Clint Ross you need to move your

2360
02:11:39,589 --> 02:11:37,500
truck the F-150 the gray F-150 you're

2361
02:11:42,109 --> 02:11:39,599
parked in an exit area

2362
02:11:44,030 --> 02:11:42,119
don't want to tow the truck we need to

2363
02:11:46,850 --> 02:11:44,040

make sure we get the the car out

2364

02:11:49,490 --> 02:11:46,860

and then make sure you let the team

2365

02:11:50,930 --> 02:11:49,500

check in tent know once you've moved the

2366

02:11:53,390 --> 02:11:50,940

vehicle

2367

02:36:13,070 --> 02:11:53,400

so Clint Ross just move your truck

2368

02:36:13,080 --> 02:36:27,670

change engine start three two one

2369

02:36:35,510 --> 02:36:31,250

okay I have a announcement uh we need a

2370

02:36:39,050 --> 02:36:35,520

car moved it's a Toyota Highlanders uh

2371

02:36:42,230 --> 02:36:39,060

it's a silver and uh the number is I

2372

02:36:45,889 --> 02:36:42,240

can't read that uh

2373

02:36:57,770 --> 02:36:48,950

Virginia plates uh please move your

2374

02:37:05,030 --> 02:36:59,870

all right

2375

02:37:24,350 --> 02:37:05,040

seven six five four stage engine start

2376

02:38:17,929 --> 02:37:55,870

[Music]

2377

02:38:17,939 --> 02:38:52,070

yes

2378

02:38:52,080 --> 02:39:47,690

um

2379

02:39:50,030 --> 02:39:49,250

they're ready to launch whenever our

2380

02:41:09,309 --> 02:39:50,040

camera

2381

02:41:09,319 --> 02:41:52,330

thank you

2382

02:41:52,340 --> 02:42:25,670

[Music]

2383

02:42:25,680 --> 02:43:36,490

foreign

2384

02:43:36,500 --> 02:44:23,650

[Music]

2385

02:44:35,030 --> 02:44:25,969

so let's send it over to our launch

2386

02:44:50,630 --> 02:44:43,610

okay

2387

02:44:54,290 --> 02:44:50,640

oh we got a person entering the range

2388

02:44:56,510 --> 02:44:54,300

always outside the flags okay

2389

02:44:58,900 --> 02:44:56,520

we are now starting volley too so we can

2390

02:45:02,210 --> 02:44:58,910

accuse the woohoo again there we go

2391

02:45:04,490 --> 02:45:02,220

[Applause]

2392

02:45:09,410 --> 02:45:04,500

all right so now we're gonna start with

2393

02:45:12,590 --> 02:45:09,420

pad 20. this is Yamhill carton I'm sorry

2394

02:45:15,170 --> 02:45:12,600

Carlton SLI this is Yamhill Carlton high

2395

02:45:17,090 --> 02:45:15,180

school out of Vienna Hill Oregon

2396

02:45:19,969 --> 02:45:17,100

this is on pad 20. the name of this

2397

02:45:23,290 --> 02:45:19,979

rocket is the germinator it's a 19.8

2398

02:45:26,570 --> 02:45:23,300

pound rocket 4 inch in diameter

2399

02:45:28,969 --> 02:45:26,580

8.275 feet with the vehicle notes this

2400

02:45:32,450 --> 02:45:28,979

does have a direct airflow from nose

2401
02:45:36,010 --> 02:45:32,460
cone intakes to the intakes to power the

2402
02:45:40,849 --> 02:45:38,990
technology it's definitely unique they

2403
02:45:43,429 --> 02:45:40,859
also do have the acronym of course it's

2404
02:45:47,389 --> 02:45:43,439
called the k-a-s-a which stands for

2405
02:45:49,370 --> 02:45:47,399
kinetic agricultural seed apparatus our

2406
02:45:52,190 --> 02:45:49,380
payload harnesses the airflow and

2407
02:45:55,070 --> 02:45:52,200
kinetic energy of the rocket to power an

2408
02:45:58,190 --> 02:45:55,080
internal turbine that spins a speed

2409
02:46:01,490 --> 02:45:58,200
canister deployed seeds per particulates

2410
02:46:02,990 --> 02:46:01,500
at motor burnout now for the for the

2411
02:46:04,849 --> 02:46:03,000
flight today they're not going to be

2412
02:46:07,370 --> 02:46:04,859
reseeded the brag Farm they're not

2413
02:46:08,570 --> 02:46:07,380

doing that today it is capable of doing

2414

02:46:11,330 --> 02:46:08,580

that but they're not going to do that

2415

02:46:13,670 --> 02:46:11,340

for today they didn't ask for it well

2416

02:46:16,910 --> 02:46:13,680

this rocket is definitely flying uh it's

2417

02:46:20,090 --> 02:46:16,920

an Aerotech k695 red line should go

2418

02:46:21,530 --> 02:46:20,100

about 4 200 feet

2419

02:46:23,389 --> 02:46:21,540

um I did notice it has a really cool

2420

02:46:26,450 --> 02:46:23,399

unique paint job on it it actually does

2421

02:46:29,030 --> 02:46:26,460

have laser engraving on the fins the

2422

02:46:30,830 --> 02:46:29,040

team did vote on five different ideas to

2423

02:46:33,230 --> 02:46:30,840

determine how to paint and finish the

2424

02:46:35,870 --> 02:46:33,240

rocket I am also aware it was a

2425

02:46:39,550 --> 02:46:35,880

father-daughter project to finish and

2426

02:46:43,429 --> 02:46:39,560

paint the rocket so that's pretty cool

2427

02:46:45,230 --> 02:46:43,439

okay on pad 20 we have a clear sky we

2428

02:46:48,410 --> 02:46:45,240

have a clear rain on the germinator

2429

02:46:55,790 --> 02:46:48,420

we're going to launch in five four three

2430

02:47:00,889 --> 02:46:58,429

okay nice straight up boost headed on

2431

02:47:03,469 --> 02:47:00,899

its way to 4 200 feet

2432

02:47:05,809 --> 02:47:03,479

can air or hold of the nose come that's

2433

02:47:08,210 --> 02:47:05,819

supposed to spin up a turbine

2434

02:47:10,610 --> 02:47:08,220

them with theoretically spread seeds

2435

02:47:15,410 --> 02:47:10,620

there's an event there's a backup to the

2436

02:47:20,929 --> 02:47:17,090

and then the main for this one is set

2437

02:47:24,530 --> 02:47:23,030

and just right above the side so this

2438

02:47:26,870 --> 02:47:24,540

one will

2439

02:47:36,590 --> 02:47:26,880

underdrop parachute go right through the

2440

02:47:40,070 --> 02:47:38,450

okay now it's just to the yeah just

2441

02:47:42,469 --> 02:47:40,080

below to the side a little to the left

2442

02:47:46,550 --> 02:47:45,050

okay we should be probably 1200 feet

2443

02:47:49,250 --> 02:47:46,560

right now

2444

02:47:51,290 --> 02:47:49,260

entering a thousand feet

2445

02:47:54,230 --> 02:47:51,300

probably 800 feet right there and then

2446

02:47:56,770 --> 02:47:54,240

there's your 600. oh

2447

02:47:59,270 --> 02:47:56,780

well now

2448

02:48:01,510 --> 02:47:59,280

this rocket has an experience all the

2449

02:48:03,110 --> 02:48:01,520

emotions

2450

02:48:04,809 --> 02:48:03,120

[Music]

2451

02:48:23,590 --> 02:48:04,819

State got caught

2452

02:48:28,490 --> 02:48:25,910

being told to hear some

2453

02:48:47,270 --> 02:48:28,500

aircraft eastbound or coming from the

2454

02:48:47,280 --> 02:48:51,349

I think it's just the microphone okay

2455

02:48:56,090 --> 02:48:52,610

okay

2456

02:48:59,450 --> 02:48:56,100

we have cylons this is

2457

02:49:00,410 --> 02:48:59,460

this is um Iowa State University in Ames

2458

02:49:02,990 --> 02:49:00,420

Iowa

2459

02:49:05,870 --> 02:49:03,000

the team did seem very excited oh yeah

2460

02:49:07,790 --> 02:49:05,880

we're here oh that's a little better now

2461

02:49:10,190 --> 02:49:07,800

they're a little more excited the name

2462

02:49:13,130 --> 02:49:10,200

of this rocket is Craig Square I'd love

2463

02:49:17,050 --> 02:49:13,140

to hear the background on Craig this is

2464

02:49:19,429 --> 02:49:17,060

a 24.1 pound rocket 4.75 inch diameter

2465

02:49:21,710 --> 02:49:19,439

8.6 feet tall

2466

02:49:25,429 --> 02:49:21,720

so this rocket if you didn't see is a

2467

02:49:29,570 --> 02:49:25,439

fully 3D painted rocket made out of petg

2468

02:49:32,210 --> 02:49:29,580

I mean top to bottom fully 3D printed

2469

02:49:35,570 --> 02:49:32,220

the name of the experiment information

2470

02:49:37,969 --> 02:49:35,580

is called the lunger it is a centrally

2471

02:49:41,570 --> 02:49:37,979

rotating stepper motor

2472

02:49:44,090 --> 02:49:41,580

that picks up the that picks the utmost

2473

02:49:46,730 --> 02:49:44,100

facing door as a linear actuator that

2474

02:49:48,710 --> 02:49:46,740

pushes the camera out and a Servo that

2475

02:49:49,210 --> 02:49:48,720

rotates the camera for different

2476

02:49:50,809 --> 02:49:49,220

pictures

2477

02:49:54,730 --> 02:49:50,819

[Music]

2478

02:49:57,710 --> 02:49:54,740

and so this rocket is flying on Aerotek

2479

02:50:09,050 --> 02:49:57,720

k780 Redline

2480

02:50:15,590 --> 02:50:11,990

a hold for a moment

2481

02:50:18,170 --> 02:50:15,600

okay we're being told to continue

2482

02:50:21,530 --> 02:50:18,180

okay so then this rocket is um again

2483

02:50:24,050 --> 02:50:21,540

flying on Aerotek k780 Redline should go

2484

02:50:26,210 --> 02:50:24,060

4 500 feet and I did notice looking at

2485

02:50:28,309 --> 02:50:26,220

the rocket it doesn't have the payload

2486

02:50:29,570 --> 02:50:28,319

doors that open like a cuckoo clock but

2487

02:50:30,770 --> 02:50:29,580

they wouldn't call it the cuckoo clock

2488

02:50:33,110 --> 02:50:30,780

technology

2489

02:50:35,330 --> 02:50:33,120
and I also did notice with the 3D

2490

02:50:36,770 --> 02:50:35,340
printed rocket they actually printed it

2491

02:50:38,690 --> 02:50:36,780
where it needed very minimal pulse

2492

02:50:40,910 --> 02:50:38,700
production so when they 3D printed it it

2493

02:50:42,530 --> 02:50:40,920
had The Notches already in it it had the

2494

02:50:45,050 --> 02:50:42,540
or the screws to go right in so

2495

02:50:47,210 --> 02:50:45,060
it's pretty clever how the team had that

2496

02:50:49,490 --> 02:50:47,220
all prepared and ready to go they have a

2497

02:50:51,770 --> 02:50:49,500
total of 12 team members and eight of

2498

02:50:56,510 --> 02:50:51,780
them are here today

2499

02:50:58,250 --> 02:50:56,520
okay so this is on pad number 22. the

2500

02:51:01,070 --> 02:50:58,260
correct squared rocket we have a clear

2501
02:51:04,849 --> 02:51:01,080
sky we have a clear range we're ready to

2502
02:51:16,330 --> 02:51:04,859
see some 3D print can go in five four

2503
02:51:28,969 --> 02:51:22,070
in five four three two one ignition

2504
02:51:35,090 --> 02:51:31,910
nice straight up boost on that one

2505
02:51:36,770 --> 02:51:35,100
the fully 3D printed rocket

2506
02:51:38,090 --> 02:51:36,780
I think they're trying to go for the 3D

2507
02:51:40,730 --> 02:51:38,100
print award

2508
02:51:46,070 --> 02:51:40,740
maybe I don't know

2509
02:51:46,080 --> 02:51:56,710
foreign

2510
02:52:04,969 --> 02:51:59,630
550 feet I don't give themselves a lot

2511
02:52:09,710 --> 02:52:07,490
and then the lunker is a very complex

2512
02:52:12,050 --> 02:52:09,720
system so when it lands the door will

2513
02:52:15,710 --> 02:52:12,060

open and then we'll take the various

2514

02:52:15,720 --> 02:52:21,110

so just now right below the Sun

2515

02:52:26,150 --> 02:52:22,910

could be about a thousand feet now

2516

02:52:27,889 --> 02:52:26,160

probably 800 feet

2517

02:52:33,290 --> 02:52:27,899

there it is

2518

02:52:37,429 --> 02:52:36,290

now the team's excited

2519

02:52:39,469 --> 02:52:37,439

they're just kind of like whatever

2520

02:52:53,990 --> 02:52:39,479

what's going on I only gotta run a

2521

02:52:54,000 --> 02:53:20,990

foreign

2522

02:53:26,929 --> 02:53:24,650

so we're gonna go to pad 41. this is a

2523

02:53:28,969 --> 02:53:26,939

Thomas Jefferson High School out of

2524

02:53:31,130 --> 02:53:28,979

Alexandria Virginia

2525

02:53:34,010 --> 02:53:31,140

all right there is no yelling award but

2526

02:53:35,990 --> 02:53:34,020

uh I guess we could try for that so this

2527

02:53:38,929 --> 02:53:36,000

um the team that Alexandria Virginia the

2528

02:53:43,429 --> 02:53:38,939

name of this rocket is Blackbird 23.5

2529

02:53:45,710 --> 02:53:43,439

pounds 5.45 inch diameter 11.4 feet tall

2530

02:53:48,469 --> 02:53:45,720

uh the main goal will be bundled with

2531

02:53:51,469 --> 02:53:48,479

the Jolly logic at apogee and then the

2532

02:53:54,349 --> 02:53:51,479

main will be released is 700 feet

2533

02:53:56,809 --> 02:53:54,359

it does have a contour mapping glider

2534

02:53:59,870 --> 02:53:56,819

not flying today so it is zip tied into

2535

02:54:02,090 --> 02:53:59,880

the payload uh this is the first time in

2536

02:54:05,030 --> 02:54:02,100

10 years this team has been here the

2537

02:54:06,830 --> 02:54:05,040

Rockets won five times previously sad

2538

02:54:08,090 --> 02:54:06,840

not to play the glider but we'll be back

2539

02:54:11,870 --> 02:54:08,100

next year

2540

02:54:13,670 --> 02:54:11,880

they've used 10 plus pounds of Balsa and

2541

02:54:15,349 --> 02:54:13,680

everyone knows how light Balsa is so

2542

02:54:17,870 --> 02:54:15,359

that's probably like a semi-load of just

2543

02:54:19,969 --> 02:54:17,880

Balsa when they were building these

2544

02:54:23,690 --> 02:54:19,979

different various gliders

2545

02:54:26,510 --> 02:54:23,700

that this rocket is flying on a Aerotech

2546

02:54:28,969 --> 02:54:26,520

k828

2547

02:54:31,070 --> 02:54:28,979

um fast Jack should go about 5 000 feet

2548

02:54:32,929 --> 02:54:31,080

I believe they probably bought the last

2549

02:54:35,590 --> 02:54:32,939

of the 828s I don't know if they even

2550

02:54:39,349 --> 02:54:35,600

make those Motors anymore

2551
02:54:41,389 --> 02:54:39,359
they also had a unique way to uh oh yeah

2552
02:54:42,889 --> 02:54:41,399
with this team so they did paint the

2553
02:54:44,330 --> 02:54:42,899
rocket you know when you have a house

2554
02:54:45,950 --> 02:54:44,340
that's inside the house you paint the

2555
02:54:48,170 --> 02:54:45,960
wall you just add another layer to it

2556
02:54:49,790 --> 02:54:48,180
and add another layer to it this team

2557
02:54:51,769 --> 02:54:49,800
painted their rocket that way so I guess

2558
02:54:54,110 --> 02:54:51,779
the indoor house paint technology they

2559
02:54:55,790 --> 02:54:54,120
just threw 50 layers of paint on it and

2560
02:54:57,889 --> 02:54:55,800
that's how they were able to decide what

2561
02:54:59,510 --> 02:54:57,899
the rocket was going to look like they

2562
02:55:01,070 --> 02:54:59,520
bought all the ball so that was in the

2563
02:55:03,830 --> 02:55:01,080

area including all of it from Hobby

2564

02:55:09,230 --> 02:55:07,309

okay we're clear on pad 41 clear sky

2565

02:55:13,790 --> 02:55:09,240

clear range we're gonna watch the

2566

02:55:19,190 --> 02:55:13,800

Blackbird in five four three two one

2567

02:55:23,630 --> 02:55:20,809

nice boost

2568

02:55:25,849 --> 02:55:23,640

I don't think that's going to make it to

2569

02:55:29,450 --> 02:55:25,859

5 000 feet though

2570

02:55:33,769 --> 02:55:31,550

barking over

2571

02:55:36,769 --> 02:55:33,779

there's an event

2572

02:56:08,030 --> 02:55:36,779

okay drug is out

2573

02:56:15,230 --> 02:56:10,670

okay we're probably about 1500 feet

2574

02:56:15,240 --> 02:56:21,469

yep

2575

02:56:27,650 --> 02:56:25,309

they're probably a thousand feet there

2576
02:56:29,210 --> 02:56:27,660
so it should have a main parachute does

2577
02:56:31,429 --> 02:56:29,220
have a glider inside but it's not

2578
02:56:35,210 --> 02:56:31,439
releasing the glider

2579
02:56:42,410 --> 02:56:38,410
all right onto two separate pieces so

2580
02:56:45,889 --> 02:56:44,150
the golf clapping over there okay it's

2581
02:56:48,530 --> 02:56:45,899
gonna be pretty refined yeah nice work

2582
02:56:51,650 --> 02:56:48,540
all right

2583
02:56:55,010 --> 02:56:51,660
okay now we're continuing on to pad 42.

2584
02:56:56,690 --> 02:56:55,020
we have swamp launch rocket team at the

2585
02:56:59,870 --> 02:56:56,700
University of Florida Gainesville

2586
02:57:03,950 --> 02:57:02,510
that sequin hats all they're excited the

2587
02:57:08,590 --> 02:57:03,960
name of this rocket is called Florida

2588
02:57:12,849 --> 02:57:08,600

man it's 26.75 pounds 4 inch in diameter

2589

02:57:17,150 --> 02:57:12,859

9.6 feet tall the expected altitude is 4

2590

02:57:18,530 --> 02:57:17,160

975 feet on the Aerotech I-1090 this

2591

02:57:20,929 --> 02:57:18,540

does have the experiment information

2592

02:57:24,110 --> 02:57:20,939

it's called the investigator with the

2593

02:57:26,929 --> 02:57:24,120

capital G Florida Gators uh there's

2594

02:57:29,769 --> 02:57:26,939

three independent cameras one deploys

2595

02:57:33,290 --> 02:57:29,779

based on the landing orientation

2596

02:57:35,990 --> 02:57:33,300

detected by the IMU

2597

02:57:37,969 --> 02:57:36,000

I had to ask what does Florida man mean

2598

02:57:39,769 --> 02:57:37,979

because I didn't understand that well I

2599

02:57:42,530 --> 02:57:39,779

learned Whenever there was a weird news

2600

02:57:45,490 --> 02:57:42,540

story or something weird and unusual the

2601
02:57:48,170 --> 02:57:45,500
headline usually starts with Florida man

2602
02:57:50,389 --> 02:57:48,180
so that's what they were going with

2603
02:57:52,969 --> 02:57:50,399
the paint scheme was voted on by the

2604
02:57:54,550 --> 02:57:52,979
teams they're using school colors and

2605
02:57:57,590 --> 02:57:54,560
sponsors and they also wanted to

2606
02:57:59,750 --> 02:57:57,600
integrate some of the SLS uh the paint

2607
02:58:01,910 --> 02:57:59,760
paint into it they also did have a

2608
02:58:04,130 --> 02:58:01,920
texturized finish to slow the rocket

2609
02:58:05,690 --> 02:58:04,140
down at the very beginning of a project

2610
02:58:07,309 --> 02:58:05,700
they didn't have

2611
02:58:08,750 --> 02:58:07,319
they did not have a lot of funding but

2612
02:58:10,730 --> 02:58:08,760
they closer to the end they got much

2613
02:58:13,670 --> 02:58:10,740

more funding

2614

02:58:16,309 --> 02:58:13,680

so they are pretty excited about that

2615

02:58:18,769 --> 02:58:16,319

I also learned in their sub scalar full

2616

02:58:21,469 --> 02:58:18,779

scale flight the rocket did land in a

2617

02:58:23,450 --> 02:58:21,479

higher than normal final orientation may

2618

02:58:24,969 --> 02:58:23,460

or may not have landed in a tree took

2619

02:58:27,710 --> 02:58:24,979

them over a week to get it out of

2620

02:58:30,170 --> 02:58:27,720

century they even tried to use a bow and

2621

02:58:31,910 --> 02:58:30,180

arrow to get the rocket out couldn't get

2622

02:58:34,550 --> 02:58:31,920

it out but they did eventually get that

2623

02:58:36,650 --> 02:58:34,560

rocket recovered

2624

02:58:39,230 --> 02:58:36,660

so we are being held right now or being

2625

02:58:41,090 --> 02:58:39,240

told there's a aircraft oh yep there it

2626
02:58:43,309 --> 02:58:41,100
is there's aircraft flying right right

2627
02:59:04,730 --> 02:58:43,319
in front of us hold up the aircraft

2628
02:59:04,740 --> 02:59:17,090
reported

2629
02:59:38,570 --> 02:59:19,130
signal Rockets

2630
02:59:44,450 --> 02:59:41,929
okay playing is clear so we're gonna go

2631
02:59:46,490 --> 02:59:44,460
to pad 42 Florida man it's always a fun

2632
02:59:49,429 --> 02:59:46,500
way to start the news article so we have

2633
02:59:52,130 --> 02:59:49,439
a clear sky we have a clear range on

2634
03:00:06,469 --> 02:59:52,140
Florida man we are going to go in five

2635
03:00:11,269 --> 03:00:09,170
so that one should go 4 600 feet with

2636
03:00:16,070 --> 03:00:11,279
the main set for 600.

2637
03:00:16,080 --> 03:00:19,730
and over there is an event

2638
03:00:19,740 --> 03:00:42,830

back up to the main apogee

2639

03:01:03,410 --> 03:00:44,690

yeah it's still a few thousand feet up

2640

03:01:09,530 --> 03:01:05,150

okay we should be about a thousand feet

2641

03:01:13,900 --> 03:01:11,929

probably 700 feet

2642

03:01:14,520 --> 03:01:13,910

Now's the Time for the parachute

2643

03:01:18,889 --> 03:01:14,530

[Music]

2644

03:01:21,469 --> 03:01:18,899

[Applause]

2645

03:01:21,479 --> 03:01:26,809

oh

2646

03:01:30,950 --> 03:01:29,150

just heard the team

2647

03:01:32,210 --> 03:01:30,960

they could kill out their chance sound

2648

03:01:34,429 --> 03:01:32,220

like someone didn't even know what it

2649

03:01:41,210 --> 03:01:34,439

was so they're just kind of guessing

2650

03:01:47,330 --> 03:01:43,809

okay continuing on the pad 43 this is

2651
03:01:48,710 --> 03:01:47,340
Carnegie Mellon Rocky Commander Carnegie

2652
03:01:50,269 --> 03:01:48,720
Mellon University out of Pittsburgh

2653
03:01:53,269 --> 03:01:50,279
Pennsylvania

2654
03:01:57,710 --> 03:01:53,279
the name of this rocket is an acronym

2655
03:02:00,110 --> 03:01:57,720
called bagpiper 40 East 42.6 pounds six

2656
03:02:03,370 --> 03:02:00,120
inch in diameter 10 and a half feet tall

2657
03:02:06,670 --> 03:02:03,380
so the name goes to ballistic

2658
03:02:09,790 --> 03:02:06,680
aerodynamic grounded

2659
03:02:12,710 --> 03:02:09,800
photographic imager and precisely

2660
03:02:14,510 --> 03:02:12,720
engineered rocket I think they're just

2661
03:02:16,010 --> 03:02:14,520
trying to back into the name back Piper

2662
03:02:18,170 --> 03:02:16,020
and just start throwing some words to it

2663
03:02:20,290 --> 03:02:18,180

they have another acronym for the

2664

03:02:24,230 --> 03:02:20,300

experiment information called scan

2665

03:02:26,690 --> 03:02:24,240

scanning camera aiding navigation this

2666

03:02:29,210 --> 03:02:26,700

rotates on a lead screw to extend then

2667

03:02:32,750 --> 03:02:29,220

uses a Servo gimbal to take photos upon

2668

03:02:38,510 --> 03:02:35,650

and this rocket is flying on an Aerotech

2669

03:02:41,630 --> 03:02:38,520

I1390 Mojave green

2670

03:02:43,849 --> 03:02:41,640

should go about 4 500 feet this rocket

2671

03:02:46,550 --> 03:02:43,859

was pretty much all carbon fiber except

2672

03:02:48,769 --> 03:02:46,560

the nose cone and part of the fins and

2673

03:02:51,590 --> 03:02:48,779

for those that don't know the name

2674

03:02:53,830 --> 03:02:51,600

bagpiper as it goes to Carnegie Mellon

2675

03:02:56,210 --> 03:02:53,840

University's Scottish Heritage

2676
03:02:58,790 --> 03:02:56,220
influences some of the school's beloved

2677
03:03:01,429 --> 03:02:58,800
traditions some of these activities are

2678
03:03:03,889 --> 03:03:01,439
homegrown I did also learn that the

2679
03:03:06,469 --> 03:03:03,899
president made an executive decision on

2680
03:03:08,630 --> 03:03:06,479
the paint Scheme it had these colors

2681
03:03:10,010 --> 03:03:08,640
just lying around and said that's close

2682
03:03:10,910 --> 03:03:10,020
enough to school colors we'll just go

2683
03:03:12,469 --> 03:03:10,920
with it

2684
03:03:16,370 --> 03:03:12,479
so we're going to launch this one on pad

2685
03:03:18,889 --> 03:03:16,380
43 the back Piper we have a clear sky we

2686
03:03:26,410 --> 03:03:18,899
have a clear range we're going in five

2687
03:03:38,269 --> 03:03:29,389
all right

2688
03:03:38,279 --> 03:03:41,510

starting to Arc over

2689

03:03:47,210 --> 03:03:44,510

there's an event

2690

03:03:51,650 --> 03:03:47,220

drunk parachute is out

2691

03:04:04,190 --> 03:03:52,969

I think they're just waiting to make

2692

03:04:09,290 --> 03:04:07,790

and for this one the main is set for 550

2693

03:04:34,550 --> 03:04:09,300

feet

2694

03:04:37,990 --> 03:04:35,530

all right

2695

03:04:39,950 --> 03:04:38,000

[Music]

2696

03:04:41,510 --> 03:04:39,960

now the team is a little bit more

2697

03:04:43,670 --> 03:04:41,520

satisfied

2698

03:04:45,230 --> 03:04:43,680

looks like they're no much blanket that

2699

03:04:47,389 --> 03:04:45,240

was going for a little different ride so

2700

03:04:49,730 --> 03:04:47,399

make sure you grab that on the way on

2701

03:04:52,550 --> 03:04:49,740

the way upon recovery

2702

03:04:55,130 --> 03:04:52,560

okay on pad number 60

2703

03:04:59,389 --> 03:04:55,140

this is Oregon State rocketry team

2704

03:05:04,610 --> 03:05:02,050

oh I don't know what that was but okay

2705

03:05:07,190 --> 03:05:04,620

this is an Oregon State University out

2706

03:05:11,889 --> 03:05:07,200

of Corvallis Oregon name of this rocket

2707

03:05:14,570 --> 03:05:11,899

is overkill 42 pounds 6.17 inch diameter

2708

03:05:17,570 --> 03:05:14,580

7.10 feet tall

2709

03:05:19,969 --> 03:05:17,580

the vehicle notes is designed made by

2710

03:05:22,429 --> 03:05:19,979

five year old

2711

03:05:26,150 --> 03:05:22,439

oh the design is done by five-year-old

2712

03:05:28,910 --> 03:05:26,160

girl from stem design camp and this was

2713

03:05:32,630 --> 03:05:28,920

held by a team it has eight members the

2714

03:05:36,590 --> 03:05:32,640

team drove 40 hours from Oregon 2500

2715

03:05:40,550 --> 03:05:36,600

miles so they're pretty exhausted

2716

03:05:44,690 --> 03:05:40,560

payload is called goop the gravity

2717

03:05:46,610 --> 03:05:44,700

operated oblong payload oh yes and the

2718

03:05:49,670 --> 03:05:46,620

team is wearing green and Hawaiian

2719

03:05:51,530 --> 03:05:49,680

shirts so if you can't see them

2720

03:05:54,170 --> 03:05:51,540

you're not missing much no I'm just

2721

03:05:59,510 --> 03:05:54,180

kidding they'll be this rocket is also

2722

03:06:02,630 --> 03:05:59,520

flying on an Aerotech I1520 Blue Thunder

2723

03:06:05,210 --> 03:06:02,640

it should go about 4 700 feet I was also

2724

03:06:07,790 --> 03:06:05,220

told it has some Weeble wobble type

2725

03:06:10,190 --> 03:06:07,800

technology as payload it always writes

2726
03:06:13,309 --> 03:06:10,200
itself upward with camera and the camera

2727
03:06:15,230 --> 03:06:13,319
is spring loaded and I did learn about

2728
03:06:17,030 --> 03:06:15,240
how they did do the paint design they

2729
03:06:19,910 --> 03:06:17,040
did it like crowdsourced via social

2730
03:06:22,490 --> 03:06:19,920
media and Alice was the winner it was

2731
03:06:24,889 --> 03:06:22,500
painted by a local painter

2732
03:06:26,269 --> 03:06:24,899
um they are also on the nose cone number

2733
03:06:28,910 --> 03:06:26,279
three so I don't know what happened to

2734
03:06:30,590 --> 03:06:28,920
nosco number one and number two

2735
03:06:33,110 --> 03:06:30,600
but they're on number three right now

2736
03:06:36,290 --> 03:06:33,120
and then this and the name oberkill is

2737
03:06:40,130 --> 03:06:36,300
over everything it's over designed over

2738
03:06:41,990 --> 03:06:40,140

engineered overkilled over easy oh wait

2739

03:06:44,330 --> 03:06:42,000

no those are eggs never mind okay and

2740

03:06:47,510 --> 03:06:44,340

then this rocket also they told me has

2741

03:06:49,070 --> 03:06:47,520

been snow tested it's been it is landed

2742

03:06:50,690 --> 03:06:49,080

in stone been dragged across the field

2743

03:06:52,490 --> 03:06:50,700

with something you want to plow feel

2744

03:06:54,769 --> 03:06:52,500

this rocket could probably do it because

2745

03:06:56,990 --> 03:06:54,779

the fins are that strong

2746

03:06:59,330 --> 03:06:57,000

and then yes the team has the official

2747

03:07:02,630 --> 03:06:59,340

tropical printed shirts with the team

2748

03:07:04,610 --> 03:07:02,640

has to go with pad number 60 we have a

2749

03:07:08,330 --> 03:07:04,620

clear sky we have a clear range we're

2750

03:07:17,929 --> 03:07:08,340

going to launch in five four three two

2751
03:07:24,110 --> 03:07:21,290
can you still hear the echo off of it

2752
03:07:26,750 --> 03:07:24,120
still under the clouds I can see it

2753
03:07:28,450 --> 03:07:26,760
arcing over

2754
03:07:36,550 --> 03:07:28,460
there's a parachute

2755
03:07:36,560 --> 03:07:46,690
what do you mean except for 650 feet

2756
03:07:46,700 --> 03:07:52,670
4782 feet there they predicted

2757
03:07:52,680 --> 03:08:04,429
still probably a couple thousand feet up

2758
03:08:04,439 --> 03:08:08,929
yeah about a thousand feet now

2759
03:08:12,830 --> 03:08:11,510
or 700 so we should see the main any

2760
03:08:20,330 --> 03:08:12,840
minute now

2761
03:08:25,670 --> 03:08:24,110
they are very excited

2762
03:08:27,230 --> 03:08:25,680
now they're just yelling I don't know

2763
03:08:33,420 --> 03:08:27,240

what they're yelling but they are that

2764

03:08:33,430 --> 03:08:39,190

[Music]

2765

03:08:45,349 --> 03:08:41,870

patch 61 we have the rocketry

2766

03:08:48,769 --> 03:08:45,359

association at Auburn University this is

2767

03:08:51,170 --> 03:08:48,779

Auburn University Auburn Alabama

2768

03:08:55,389 --> 03:08:51,180

name of this rocket is four brighter

2769

03:09:01,969 --> 03:08:58,490

20 pound swing there six inch in

2770

03:09:04,730 --> 03:09:01,979

diameter 10.4 feet tall

2771

03:09:06,830 --> 03:09:04,740

for the experimentation information is

2772

03:09:10,429 --> 03:09:06,840

the R2D2 camera

2773

03:09:13,330 --> 03:09:10,439

that deploys after landing has got lots

2774

03:09:18,469 --> 03:09:13,340

of acronyms for the system that is the

2775

03:09:20,870 --> 03:09:18,479

MMORPG the raps and then the cap

2776

03:09:22,790 --> 03:09:20,880

I also did notice with this team yep

2777

03:09:25,070 --> 03:09:22,800

it's the camera like pops up and down

2778

03:09:31,870 --> 03:09:25,080

you think about R2D2 on the X-Wing it

2779

03:09:37,730 --> 03:09:35,389

[Music]

2780

03:09:39,769 --> 03:09:37,740

the rock is also landed in a ditch but

2781

03:09:41,990 --> 03:09:39,779

it didn't suffer any damage

2782

03:09:44,210 --> 03:09:42,000

oh yeah so then this team also has my

2783

03:09:46,849 --> 03:09:44,220

buddy solder so father is back so if

2784

03:09:48,769 --> 03:09:46,859

anyone knows yeah he's here

2785

03:09:50,570 --> 03:09:48,779

so I was in the house

2786

03:09:53,690 --> 03:09:50,580

um this team also did compete in another

2787

03:09:55,550 --> 03:09:53,700

argonia Cup this year the Auburn team

2788

03:09:59,510 --> 03:09:55,560

also they were all deep they got 80

2789

03:10:00,889 --> 03:09:59,520

people on the team 36 of them are here I

2790

03:10:03,710 --> 03:10:00,899

think was also really unique with this

2791

03:10:06,769 --> 03:10:03,720

team they also have this rocket painted

2792

03:10:09,050 --> 03:10:06,779

by a nearby local children's hospital by

2793

03:10:11,389 --> 03:10:09,060

the children that are in the hospital so

2794

03:10:13,130 --> 03:10:11,399

that's a really cool neat story to that

2795

03:10:15,349 --> 03:10:13,140

yeah that's why the name of the rocket

2796

03:10:18,349 --> 03:10:15,359

is called four brighter Futures so

2797

03:10:20,990 --> 03:10:18,359

really cool thing there also is Jan

2798

03:10:22,730 --> 03:10:21,000

Davis who is a three-time astronaut she

2799

03:10:25,610 --> 03:10:22,740

is here in the house to witness this

2800

03:10:27,110 --> 03:10:25,620

flight so she's um I'm hearing a couple

2801
03:10:29,510 --> 03:10:27,120
of plots for that so that's pretty cool

2802
03:10:33,590 --> 03:10:29,520
to have her here to witness this flight

2803
03:10:35,150 --> 03:10:33,600
so on pad 61 we are gonna watch this oh

2804
03:10:36,469 --> 03:10:35,160
we're being upward

2805
03:10:39,590 --> 03:10:36,479
good okay

2806
03:10:41,450 --> 03:10:39,600
so four brighter Futures a pad 61 we

2807
03:10:44,990 --> 03:10:41,460
have a clear sky we have a clear range

2808
03:10:50,269 --> 03:10:45,000
we're going to launch in five four three

2809
03:10:50,279 --> 03:11:01,550
good

2810
03:11:01,560 --> 03:11:17,690
so this one should be going to 5400 feet

2811
03:11:22,070 --> 03:11:19,030
oh yeah

2812
03:11:28,969 --> 03:11:22,080
so there's confirmation it is under

2813
03:11:33,769 --> 03:11:31,849

Spence right now

2814

03:11:36,050 --> 03:11:33,779

solder's wondering if he did a good job

2815

03:11:38,690 --> 03:11:36,060

soldering the project

2816

03:11:47,450 --> 03:11:38,700

it's not quite sure so hopefully it

2817

03:11:47,460 --> 03:11:54,410

main on this one is set for 600 feet

2818

03:12:01,969 --> 03:11:56,269

oh there he is

2819

03:12:08,090 --> 03:12:05,389

so some of it's under parachute

2820

03:12:10,610 --> 03:12:08,100

some of it is

2821

03:12:25,309 --> 03:12:10,620

it's testing out its theory of drop

2822

03:12:30,650 --> 03:12:28,250

k-pad 62 we have Spring Grove rocketry

2823

03:12:33,410 --> 03:12:30,660

at a Spring Grove Area

2824

03:12:36,290 --> 03:12:33,420

Pennsylvania oh this is the Springbrook

2825

03:12:40,849 --> 03:12:38,990

the name of this rocket is hyperion

2826
03:12:42,710 --> 03:12:40,859
this one also does not want to reveal

2827
03:12:44,990 --> 03:12:42,720
its weight so it is an unknown weight

2828
03:12:46,190 --> 03:12:45,000
but as four inches in diameter eight

2829
03:12:48,950 --> 03:12:46,200
feet tall

2830
03:12:51,230 --> 03:12:48,960
it does have cameras because they're

2831
03:12:54,710 --> 03:12:51,240
cool I like that as a technical term it

2832
03:12:57,170 --> 03:12:54,720
is cool and they used it is also helps

2833
03:12:58,790 --> 03:12:57,180
it helps for preventing it to weathercon

2834
03:13:00,190 --> 03:12:58,800
under boost

2835
03:13:02,990 --> 03:13:00,200
the the

2836
03:13:05,690 --> 03:13:03,000
experiment information is called Ava it

2837
03:13:13,849 --> 03:13:05,700
is a radio wave that transmits three

2838
03:13:13,859 --> 03:13:25,070

we are going to hold

2839

03:13:25,080 --> 03:13:50,090

it'll hold right for a moment just gotta

2840

03:13:51,360 --> 03:13:51,050

thank you

2841

03:14:16,990 --> 03:13:51,370

[Applause]

2842

03:14:17,000 --> 03:15:41,929

come on

2843

03:15:41,939 --> 03:16:59,880

foreign

2844

03:16:59,890 --> 03:17:34,070

[Music]

2845

03:17:37,969 --> 03:17:36,170

so just a quick announcement or update

2846

03:17:39,590 --> 03:17:37,979

so

2847

03:17:42,590 --> 03:17:39,600

I got a little warm down there at the

2848

03:17:44,330 --> 03:17:42,600

launch Cut after the rocket flew

2849

03:17:46,550 --> 03:17:44,340

and it actually

2850

03:17:48,469 --> 03:17:46,560

scorched some of the cords so we can't

2851
03:17:50,630 --> 03:17:48,479
watch any of the other Rockets so we

2852
03:17:53,510 --> 03:17:50,640
have to switch out the cables right now

2853
03:17:56,030 --> 03:17:53,520
just be a few minute delay as we update

2854
03:17:58,130 --> 03:17:56,040
the cables and get all that going and

2855
03:18:00,429 --> 03:17:58,140
fixed it repaired so we can

2856
03:18:03,650 --> 03:18:00,439
launch the other

2857
03:18:05,870 --> 03:18:03,660
side rockets on this in this group for

2858
03:18:59,630 --> 03:18:05,880
this volley so we'll have to stand by

2859
03:18:59,640 --> 03:19:02,410
earlier

2860
03:19:08,330 --> 03:19:04,790
make a quick announcement for Michael

2861
03:19:10,910 --> 03:19:08,340
bochner you have your car parked in a

2862
03:19:13,190 --> 03:19:10,920
not good place so we want to make sure

2863
03:19:14,870 --> 03:19:13,200

it's moved or it gets moved for you I

2864

03:19:18,349 --> 03:19:14,880

don't think you want to be moved for you

2865

03:19:20,630 --> 03:19:18,359

you get the luxury of paying an inbound

2866

03:19:22,730 --> 03:19:20,640

tax probably so you have a gray

2867

03:19:24,710 --> 03:19:22,740

Highlander grades right out of

2868

03:19:28,190 --> 03:19:24,720

Highlander Michael bochner please move

2869

03:19:29,750 --> 03:19:28,200

your vehicle another reminder is full

2870

03:19:33,230 --> 03:19:29,760

warm out make sure you drink your water

2871

03:19:36,050 --> 03:19:33,240

make sure our yep that's you

2872

03:19:38,630 --> 03:19:36,060

your water have some sunscreen on or

2873

03:19:42,010 --> 03:19:38,640

suntan lotion and then

2874

03:19:54,530 --> 03:19:42,020

stay in the shade if you can

2875

03:19:54,540 --> 03:20:18,830

um

2876
03:20:18,840 --> 03:20:22,910
I'm ready

2877
03:20:22,920 --> 03:20:33,670
foreign

2878
03:20:37,990 --> 03:20:36,050
excellent help with the National

2879
03:20:39,889 --> 03:20:38,000
Association of rocketry our Nar

2880
03:20:41,870 --> 03:20:39,899
efficients running these launch

2881
03:20:43,730 --> 03:20:41,880
operations safety's number one they're

2882
03:20:45,110 --> 03:20:43,740
out there making sure that everything is

2883
03:20:47,929 --> 03:20:45,120
done safely and that we can get these

2884
03:20:49,309 --> 03:20:47,939
other rockets in volleytube up there as

2885
03:20:51,170 --> 03:20:49,319
they are taking care of everything

2886
03:20:53,269 --> 03:20:51,180
downrange we are going to talk to some

2887
03:20:55,610 --> 03:20:53,279
teams and first up is Temple University

2888
03:20:56,990 --> 03:20:55,620

now you guys flew earlier today how did

2889

03:20:57,710 --> 03:20:57,000

the launch go

2890

03:20:59,389 --> 03:20:57,720

um

2891

03:21:01,010 --> 03:20:59,399

okay we everything

2892

03:21:02,630 --> 03:21:01,020

where our main parachute didn't come out

2893

03:21:03,830 --> 03:21:02,640

of this one effect

2894

03:21:05,929 --> 03:21:03,840

um we tried a little new configuration

2895

03:21:06,769 --> 03:21:05,939

of folding it and we probably should

2896

03:21:09,230 --> 03:21:06,779

have just stuck with our original

2897

03:21:10,550 --> 03:21:09,240

methods that worked twice before but you

2898

03:21:12,290 --> 03:21:10,560

know you live and you learn so we know

2899

03:21:14,450 --> 03:21:12,300

next time so you've gone out and gotten

2900

03:21:16,250 --> 03:21:14,460

the rocky what kind of condition is the

2901
03:21:18,410 --> 03:21:16,260
rocket in after remain not coming out

2902
03:21:19,849 --> 03:21:18,420
the airframe is okay and we think most

2903
03:21:21,349 --> 03:21:19,859
of our electronics are good but all of

2904
03:21:23,809 --> 03:21:21,359
our 3D printed Parts didn't make it so

2905
03:21:26,450 --> 03:21:23,819
but that's expected we hate to hear that

2906
03:21:29,210 --> 03:21:26,460
so talk to us what's up next now you've

2907
03:21:31,190 --> 03:21:29,220
got the rocket back going through seeing

2908
03:21:32,750 --> 03:21:31,200
exactly what happened I would imagine

2909
03:21:34,309 --> 03:21:32,760
um what's up next for you after you've

2910
03:21:35,630 --> 03:21:34,319
flown the rocket

2911
03:21:36,769 --> 03:21:35,640
um that's a great question we do have an

2912
03:21:38,510 --> 03:21:36,779
extra motor and they're showing the

2913
03:21:41,269 --> 03:21:38,520

launches around us so hopefully we can

2914

03:21:43,429 --> 03:21:41,279

get a third or a fourth light in

2915

03:21:44,929 --> 03:21:43,439

um give it another go uh as far as like

2916

03:21:46,250 --> 03:21:44,939

Temple University goes we would love to

2917

03:21:47,870 --> 03:21:46,260

make this a club it's just a senior

2918

03:21:49,190 --> 03:21:47,880

design team so just continuing the

2919

03:21:50,389 --> 03:21:49,200

effort would be great

2920

03:21:52,490 --> 03:21:50,399

um so we're going to push for that until

2921

03:21:54,050 --> 03:21:52,500

the end of the semester so you mentioned

2922

03:21:56,150 --> 03:21:54,060

it being a senior Design Team all of you

2923

03:21:57,769 --> 03:21:56,160

guys are new to student launch what has

2924

03:21:59,690 --> 03:21:57,779

this experience been like coming to

2925

03:22:02,030 --> 03:21:59,700

Rocket City USA what has that been like

2926

03:22:03,410 --> 03:22:02,040

for you all uh it's really cool um I did

2927

03:22:05,750 --> 03:22:03,420

this competition in high school so I've

2928

03:22:07,130 --> 03:22:05,760

been to Huntsville once um but I was way

2929

03:22:08,269 --> 03:22:07,140

more involved in this competition so it

2930

03:22:09,469 --> 03:22:08,279

was great to see all the work that has

2931

03:22:11,150 --> 03:22:09,479

been involved and it was awesome to

2932

03:22:12,610 --> 03:22:11,160

bring these guys along a lot of them are

2933

03:22:14,870 --> 03:22:12,620

some of my closest friends that I've

2934

03:22:18,290 --> 03:22:14,880

known all through school

2935

03:22:20,750 --> 03:22:18,300

um so yeah it's NASA puts on this and

2936

03:22:22,130 --> 03:22:20,760

it's a great excuse for us to do a bunch

2937

03:22:24,050 --> 03:22:22,140

of design work which is really important

2938

03:22:26,330 --> 03:22:24,060

you know I think there's some of the

2939

03:22:27,650 --> 03:22:26,340

lack of that so any excuse to be able to

2940

03:22:29,330 --> 03:22:27,660

build something design something

2941

03:22:31,130 --> 03:22:29,340

fabricate through the whole process is

2942

03:22:33,050 --> 03:22:31,140

really awesome for our students so lots

2943

03:22:34,610 --> 03:22:33,060

of great skills as we take you all

2944

03:22:36,110 --> 03:22:34,620

through that engineering really the

2945

03:22:37,610 --> 03:22:36,120

entire engineering life cycle because it

2946

03:22:39,469 --> 03:22:37,620

does start back in August with their

2947

03:22:41,389 --> 03:22:39,479

proposal anybody back home you want to

2948

03:22:42,769 --> 03:22:41,399

thank anybody want to say hi to yeah we

2949

03:22:44,630 --> 03:22:42,779

want to give a big shout out to Blake

2950

03:22:46,730 --> 03:22:44,640

Bray for letting us use our 3D printer a

2951

03:22:48,290 --> 03:22:46,740

lot there's a lot of senior design

2952

03:22:50,090 --> 03:22:48,300

projects and he snuck Us in everywhere

2953

03:22:51,410 --> 03:22:50,100

he could and then obviously our

2954

03:22:53,090 --> 03:22:51,420

sponsoring City construction company

2955

03:22:55,130 --> 03:22:53,100

they helped us out of town with the

2956

03:22:57,110 --> 03:22:55,140

finances and then our advisor is Dr

2957

03:22:59,870 --> 03:22:57,120

Cavallo and Dr Philip hackham and our

2958

03:23:01,969 --> 03:22:59,880

coordinator Dr Ravi and Dr Reggio that's

2959

03:23:03,950 --> 03:23:01,979

awesome so everybody at Temple You've

2960

03:23:07,550 --> 03:23:03,960

seen their rockets fly we want to see

2961

03:23:09,229 --> 03:23:07,560

you guys at next year's 2020 2024 NASA

2962

03:23:11,389 --> 03:23:09,239

student launch cup hey thank you all so

2963

03:23:13,429 --> 03:23:11,399

much for coming out we loved having you

2964

03:23:16,309 --> 03:23:13,439

um sorry about the parachute but you'll

2965

03:23:19,309 --> 03:23:16,319

get it get it so that is that is the

2966

03:23:21,889 --> 03:23:19,319

business we're all in so that is Temple

2967

03:23:23,870 --> 03:23:21,899

the owls with their rocket play we're

2968

03:23:25,929 --> 03:23:23,880

gonna bring in Lane who's got our next

2969

03:23:29,750 --> 03:23:25,939

team great job Temple

2970

03:23:31,130 --> 03:23:29,760

hey how's everything going everything is

2971

03:23:32,809 --> 03:23:31,140

going great we've had some amazing

2972

03:23:34,190 --> 03:23:32,819

launches of course we had a little bit

2973

03:23:35,510 --> 03:23:34,200

of a fire over there but it's put out

2974

03:23:36,769 --> 03:23:35,520

now

2975

03:23:38,630 --> 03:23:36,779

um they're trying to get those Rockets

2976

03:23:40,969 --> 03:23:38,640

set back up but now we have Virginia

2977

03:23:43,849 --> 03:23:40,979

Tech with us

2978

03:23:46,250 --> 03:23:43,859

and as you can see gorgeous we have one

2979

03:23:49,370 --> 03:23:46,260

of the longest if not the tallest rocket

2980

03:23:51,229 --> 03:23:49,380

here today so hi I you're the team

2981

03:23:53,030 --> 03:23:51,239

spokesperson so please introduce

2982

03:23:54,530 --> 03:23:53,040

yourself and tell us your major I'm Cody

2983

03:23:56,330 --> 03:23:54,540

Jones I'm a senior in aerospace

2984

03:23:58,309 --> 03:23:56,340

engineering at Virginia Tech awesome

2985

03:24:00,349 --> 03:23:58,319

okay so tell me about the length of this

2986

03:24:03,710 --> 03:24:00,359

guy how how tall is it so this guy is

2987

03:24:05,389 --> 03:24:03,720

146 inches from the booster tip here at

2988

03:24:07,370 --> 03:24:05,399

the nozzle all the way to the nose cone

2989

03:24:09,349 --> 03:24:07,380

which in feet that's about 12 foot 2

2990

03:24:10,610 --> 03:24:09,359

inches and when it stands on it spins it

2991

03:24:12,349 --> 03:24:10,620

adds about two inches it's like a

2992

03:24:15,590 --> 03:24:12,359

standing on Hills so you get that extra

2993

03:24:17,570 --> 03:24:15,600

two inches you get the ad so yeah so

2994

03:24:19,130 --> 03:24:17,580

reasoning behind making such a tall

2995

03:24:20,570 --> 03:24:19,140

rocket so it's all about using

2996

03:24:22,550 --> 03:24:20,580

commercial off-the-shelf Parts it

2997

03:24:24,349 --> 03:24:22,560

reduces any type of mismanagement we

2998

03:24:25,670 --> 03:24:24,359

have so when we make our own body tubes

2999

03:24:27,769 --> 03:24:25,680

there's always that risk that they might

3000

03:24:29,570 --> 03:24:27,779

explode on the pad or up in the air due

3001
03:24:31,190 --> 03:24:29,580
to any type of mishap so it's a lot

3002
03:24:32,510 --> 03:24:31,200
safer for competitions like these where

3003
03:24:34,370 --> 03:24:32,520
there's a lot of public people involved

3004
03:24:35,929 --> 03:24:34,380
that we can just buy manufactured body

3005
03:24:37,250 --> 03:24:35,939
tubes and so when we were making it we

3006
03:24:39,710 --> 03:24:37,260
wanted a four foot and a five foot

3007
03:24:41,330 --> 03:24:39,720
section tube and then we use the Von

3008
03:24:43,309 --> 03:24:41,340
Carmen nose cone which are five to one

3009
03:24:45,469 --> 03:24:43,319
so that means that there's six inches of

3010
03:24:47,450 --> 03:24:45,479
diameter so you times that by five to

3011
03:24:48,950 --> 03:24:47,460
get that ended up being 36 inches from

3012
03:24:51,290 --> 03:24:48,960
the manufacturer which is a little bit

3013
03:24:52,969 --> 03:24:51,300

unfortunate so it did balloon in size a

3014

03:24:54,590 --> 03:24:52,979

little bit so you had nine feet from the

3015

03:24:56,750 --> 03:24:54,600

body tubes and about three feet from the

3016

03:24:58,849 --> 03:24:56,760

nose cone so that's how that size did

3017

03:25:00,229 --> 03:24:58,859

kind of end up it was unfortunate that

3018

03:25:02,809 --> 03:25:00,239

it did get a little heavy because it's

3019

03:25:04,910 --> 03:25:02,819

at 54 pounds now which is a very large

3020

03:25:07,190 --> 03:25:04,920

rocket for this competition you know 54

3021

03:25:10,190 --> 03:25:07,200

pounds off the pad is

3022

03:25:11,330 --> 03:25:10,200

maybe this for second heaviest rocket

3023

03:25:13,010 --> 03:25:11,340

that's in this competition the other

3024

03:25:14,990 --> 03:25:13,020

guys are launching from their home field

3025

03:25:16,969 --> 03:25:15,000

so we're very very lucky that we were

3026

03:25:18,950 --> 03:25:16,979

able to find a parachute that was good

3027

03:25:19,969 --> 03:25:18,960

enough to actually be able to come down

3028

03:25:22,190 --> 03:25:19,979

here and launch and we thank everybody

3029

03:25:23,809 --> 03:25:22,200

at Nasa for allowing us to bring the

3030

03:25:26,090 --> 03:25:23,819

fighting gobbler down here to launch

3031

03:25:29,210 --> 03:25:26,100

yeah absolutely so that's

3032

03:25:32,269 --> 03:25:30,349

there's a

3033

03:25:34,429 --> 03:25:32,279

camera here and it tends to circle

3034

03:25:35,870 --> 03:25:34,439

around the rocket rocket so our our

3035

03:25:37,670 --> 03:25:35,880

camera is a little unique from everybody

3036

03:25:39,290 --> 03:25:37,680

else's payload so our camera is mounted

3037

03:25:40,790 --> 03:25:39,300

externally through the entire flight so

3038

03:25:42,950 --> 03:25:40,800

it's on the outside of the rocket you

3039

03:25:45,050 --> 03:25:42,960

all can kind of see it spin here the

3040

03:25:47,269 --> 03:25:45,060

little guy's nickname is Al so it can

3041

03:25:49,969 --> 03:25:47,279

spin all the way around the body tube

3042

03:25:51,950 --> 03:25:49,979

wherever he's at right now

3043

03:25:53,690 --> 03:25:51,960

sometimes he takes a little bit to roam

3044

03:25:54,950 --> 03:25:53,700

around so you can see him sort of going

3045

03:25:56,809 --> 03:25:54,960

all through that so the body tube is

3046

03:25:58,429 --> 03:25:56,819

actually split entirely up there so it's

3047

03:26:00,590 --> 03:25:58,439

this it's disconnected there's a whole

3048

03:26:02,809 --> 03:26:00,600

inner structure it holds it tight so it

3049

03:26:04,610 --> 03:26:02,819

can run around that it has two angles of

3050

03:26:05,929 --> 03:26:04,620

Freedom so it can rotate this way and

3051
03:26:07,490 --> 03:26:05,939
then rotate that way so there's nothing

3052
03:26:10,070 --> 03:26:07,500
this guy can't see throughout the entire

3053
03:26:11,630 --> 03:26:10,080
launch it's never inside so it has an

3054
03:26:13,490 --> 03:26:11,640
entire flight picture from as soon as

3055
03:26:14,990 --> 03:26:13,500
the Flames turn on at the nozzle all the

3056
03:26:17,570 --> 03:26:15,000
way to when it hits the ground so it

3057
03:26:19,130 --> 03:26:17,580
makes wonderful videos and everybody on

3058
03:26:19,929 --> 03:26:19,140
Twitter and Instagram have loved them so

3059
03:26:22,070 --> 03:26:19,939
far

3060
03:26:23,210 --> 03:26:22,080
we've had a lot of great feedback a lot

3061
03:26:24,889 --> 03:26:23,220
of people at the rocket Fair really

3062
03:26:25,910 --> 03:26:24,899
loved it because even when kids love it

3063
03:26:27,290 --> 03:26:25,920

because it looks like a little animal

3064

03:26:28,910 --> 03:26:27,300

like a little mountain around there

3065

03:26:31,190 --> 03:26:28,920

we've had people asking us to name it

3066

03:26:32,809 --> 03:26:31,200

like Mouse and things but yeah this

3067

03:26:35,030 --> 03:26:32,819

little guy is the owl you can see

3068

03:26:36,290 --> 03:26:35,040

everything oh it's called Owl and what

3069

03:26:38,450 --> 03:26:36,300

do you guys have like a team name

3070

03:26:40,309 --> 03:26:38,460

outside of just Virginia Tech or so

3071

03:26:41,929 --> 03:26:40,319

Virginia Tech rocketry we are just

3072

03:26:43,309 --> 03:26:41,939

Virginia Tech at Virginia Tech there's a

3073

03:26:44,929 --> 03:26:43,319

couple different rocket teams so we are

3074

03:26:47,330 --> 03:26:44,939

the NASA student launch Team at Virginia

3075

03:26:48,889 --> 03:26:47,340

Tech so awesome we don't really get our

3076

03:26:50,630 --> 03:26:48,899

own name we love repping the school

3077

03:26:52,910 --> 03:26:50,640

everybody there loves her Virginia Tech

3078

03:26:55,670 --> 03:26:52,920

so we're happy the rep buses just to

3079

03:26:59,570 --> 03:26:56,990

absolutely can you tell me who those are

3080

03:27:00,950 --> 03:26:59,580

from so those are from Homer Hickam and

3081

03:27:02,450 --> 03:27:00,960

one of his friends that started his own

3082

03:27:05,450 --> 03:27:02,460

company he now is doing some commercial

3083

03:27:07,429 --> 03:27:05,460

things for blue origin and um

3084

03:27:08,690 --> 03:27:07,439

they're doing some commercial stuff on

3085

03:27:10,490 --> 03:27:08,700

the moon he wouldn't tell me what it was

3086

03:27:12,229 --> 03:27:10,500

unfortunately I guess it's a little bit

3087

03:27:14,690 --> 03:27:12,239

of a trade secret but Homer Hickam is a

3088

03:27:16,309 --> 03:27:14,700

VT alumni at Virginia Tech we have a

3089

03:27:18,110 --> 03:27:16,319

very broad support from our alumni we

3090

03:27:19,610 --> 03:27:18,120

love interacting with them we love them

3091

03:27:21,349 --> 03:27:19,620

coming back to our events and stuff they

3092

03:27:23,150 --> 03:27:21,359

always say Hokies love hiring Hokies

3093

03:27:24,349 --> 03:27:23,160

because they know the curriculum we have

3094

03:27:25,670 --> 03:27:24,359

they know the professors they know the

3095

03:27:27,950 --> 03:27:25,680

great environment we have at the school

3096

03:27:29,269 --> 03:27:27,960

so we always love when we get our our

3097

03:27:31,490 --> 03:27:29,279

alumni come back because they have great

3098

03:27:33,229 --> 03:27:31,500

stories I have great advice you know uh

3099

03:27:34,490 --> 03:27:33,239

Mr Hickam was telling us about the

3100

03:27:36,650 --> 03:27:34,500

different work he's done and giving us

3101

03:27:37,849 --> 03:27:36,660

advice about uh what he was telling

3102

03:27:38,929 --> 03:27:37,859

people like at SpaceX about just don't

3103

03:27:40,670 --> 03:27:38,939

give up you know you're going to fail

3104

03:27:42,469 --> 03:27:40,680

but keep on going which is indicative of

3105

03:27:44,210 --> 03:27:42,479

sort of uh our whole year because we

3106

03:27:46,670 --> 03:27:44,220

went through three launches with each of

3107

03:27:48,110 --> 03:27:46,680

our Rockets so our subscale rocket air

3108

03:27:49,790 --> 03:27:48,120

full scale both had to be launched three

3109

03:27:50,990 --> 03:27:49,800

times because we ran into those

3110

03:27:51,950 --> 03:27:51,000

challenges and those failures and I

3111

03:27:53,510 --> 03:27:51,960

think that's the most important thing

3112

03:27:55,550 --> 03:27:53,520

with engineering is you're gonna fail

3113

03:27:57,110 --> 03:27:55,560

but you just got to keep going yes

3114

03:27:59,510 --> 03:27:57,120

absolutely we see that time and time

3115

03:28:01,429 --> 03:27:59,520

again today after interviewing a lot of

3116

03:28:04,010 --> 03:28:01,439

the teams so is there anyone you'd like

3117

03:28:05,389 --> 03:28:04,020

to shout out or think absolutely we'd

3118

03:28:07,190 --> 03:28:05,399

really like to think our team Mentor Bob

3119

03:28:08,990 --> 03:28:07,200

Schoener if it wasn't for his Direction

3120

03:28:10,429 --> 03:28:09,000

this whole rocket could have never been

3121

03:28:12,110 --> 03:28:10,439

built a lot of us we come from

3122

03:28:14,389 --> 03:28:12,120

backgrounds that have no experience in

3123

03:28:16,429 --> 03:28:14,399

high-powered rocketry so he really makes

3124

03:28:17,870 --> 03:28:16,439

sure that we're understanding what we're

3125

03:28:19,190 --> 03:28:17,880

doing we're doing it safely and things

3126

03:28:21,889 --> 03:28:19,200

like that we want to thank our faculty

3127

03:28:23,150 --> 03:28:21,899

advisor Dr Pat Artis he is a huge

3128

03:28:24,590 --> 03:28:23,160

tremendous help with us he goes through

3129

03:28:25,849 --> 03:28:24,600

our reports and things making sure that

3130

03:28:27,469 --> 03:28:25,859

we don't write anything that seems a

3131

03:28:28,849 --> 03:28:27,479

little off or a little silly you know

3132

03:28:30,170 --> 03:28:28,859

he's been in industry for a long time

3133

03:28:32,090 --> 03:28:30,180

has his own company performance

3134

03:28:33,349 --> 03:28:32,100

associates they love that we really want

3135

03:28:35,210 --> 03:28:33,359

to thank our sponsors if y'all can

3136

03:28:36,889 --> 03:28:35,220

rotate this guy we really want to thank

3137

03:28:38,990 --> 03:28:36,899

Collins Aerospace and the student

3138

03:28:40,370 --> 03:28:39,000

engineer council at Virginia Tech and

3139

03:28:41,450 --> 03:28:40,380

the department of aerospace engineer at

3140

03:28:43,490 --> 03:28:41,460

Virginia Tech we want to thank all of

3141

03:28:44,809 --> 03:28:43,500

them without these guys none of our

3142

03:28:46,010 --> 03:28:44,819

projects could actually happen and of

3143

03:28:48,110 --> 03:28:46,020

course we want to thank the staff here

3144

03:28:49,370 --> 03:28:48,120

at Nasa because without NASA putting on

3145

03:28:50,570 --> 03:28:49,380

this event we couldn't get this great

3146

03:28:52,610 --> 03:28:50,580

opportunity to come out here and

3147

03:28:54,349 --> 03:28:52,620

actually learn so

3148

03:28:55,550 --> 03:28:54,359

guys so much for talking

3149

03:28:59,210 --> 03:28:55,560

stuff like today in the competition

3150

03:29:04,849 --> 03:29:02,630

all right and here we have my wonderful

3151
03:29:06,530 --> 03:29:04,859
colleague Lauren Perkins Lauren what we

3152
03:29:07,490 --> 03:29:06,540
got going on next yeah so we are

3153
03:29:10,010 --> 03:29:07,500
actually going to be speaking with

3154
03:29:11,570 --> 03:29:10,020
Angelo State University and it is their

3155
03:29:15,410 --> 03:29:11,580
very first time at this competition

3156
03:29:19,309 --> 03:29:17,750
so tell me uh your name and your role

3157
03:29:25,370 --> 03:29:19,319
with the team so my name is Antonio

3158
03:29:30,170 --> 03:29:27,830
I was actually the team

3159
03:29:33,349 --> 03:29:30,180
okay wonderful and it is your first time

3160
03:29:35,630 --> 03:29:33,359
so tell me has it met expectations

3161
03:29:36,889 --> 03:29:35,640
do you have any expectations well we

3162
03:29:40,309 --> 03:29:36,899
knew from the start this wasn't going to

3163
03:29:42,410 --> 03:29:40,319

be a very easy project and uh coming

3164

03:29:44,750 --> 03:29:42,420

from a background with no experience in

3165

03:29:47,030 --> 03:29:44,760

any kind of rocketry uh definitely has

3166

03:29:49,849 --> 03:29:47,040

exceeded our expectations that's awesome

3167

03:29:51,530 --> 03:29:49,859

so y'all are in the next volley so

3168

03:29:53,809 --> 03:29:51,540

you'll be in volley three from what

3169

03:29:55,370 --> 03:29:53,819

you've seen in one and so far and two

3170

03:29:57,050 --> 03:29:55,380

have you seen any teams that you've

3171

03:29:58,969 --> 03:29:57,060

liked been impressed with how's that

3172

03:30:01,010 --> 03:29:58,979

going honestly all of the teams have

3173

03:30:02,330 --> 03:30:01,020

really impressed seeing how their

3174

03:30:04,670 --> 03:30:02,340

payloads are functioning some are

3175

03:30:06,469 --> 03:30:04,680

similar some are very very different and

3176

03:30:08,110 --> 03:30:06,479

just seeing how everybody's creative

3177

03:30:10,969 --> 03:30:08,120

process just goes throughout the project

3178

03:30:13,910 --> 03:30:10,979

yeah what are you most proud of in your

3179

03:30:17,090 --> 03:30:13,920

rocket honestly being able to build the

3180

03:30:19,969 --> 03:30:17,100

whole rocket and meeting everybody in on

3181

03:30:21,530 --> 03:30:19,979

our team we're a new to the competition

3182

03:30:23,330 --> 03:30:21,540

obviously so we have

3183

03:30:25,729 --> 03:30:23,340

not a lot of people we have a team of

3184

03:30:27,590 --> 03:30:25,739

about 10 people so we had to really work

3185

03:30:29,809 --> 03:30:27,600

with each other to get all of the roles

3186

03:30:31,790 --> 03:30:29,819

all of the requirements done

3187

03:30:33,469 --> 03:30:31,800

sure and tell me some of the challenges

3188

03:30:35,330 --> 03:30:33,479

every team has had to overcome

3189

03:30:36,290 --> 03:30:35,340

challenges in this process talk to me

3190

03:30:37,550 --> 03:30:36,300

about some of those that you've had to

3191

03:30:40,490 --> 03:30:37,560

overcome

3192

03:30:42,410 --> 03:30:40,500

well like I said a little earlier none

3193

03:30:44,750 --> 03:30:42,420

of us knew anything about the Rockets So

3194

03:30:47,389 --> 03:30:44,760

learning everything that there is to

3195

03:30:49,429 --> 03:30:47,399

know about rocketry from the what's

3196

03:30:51,290 --> 03:30:49,439

efficient what to stay away from and

3197

03:30:53,990 --> 03:30:51,300

then learning everything about the

3198

03:30:57,050 --> 03:30:54,000

payload uh radio frequency was

3199

03:30:59,150 --> 03:30:57,060

definitely the biggest challenge for us

3200

03:31:01,130 --> 03:30:59,160

okay wonderful and is there anybody that

3201
03:31:03,469 --> 03:31:01,140
you'd like to thank for you know getting

3202
03:31:05,570 --> 03:31:03,479
you guys here today

3203
03:31:09,349 --> 03:31:05,580
so we have a couple of sponsors uh

3204
03:31:11,929 --> 03:31:09,359
Valerie and Skip press we also have knf

3205
03:31:13,729 --> 03:31:11,939
equipment WWF Coast Steel those are the

3206
03:31:15,469 --> 03:31:13,739
people who kind of helped us raise the

3207
03:31:17,389 --> 03:31:15,479
funds for that additionally we would

3208
03:31:19,190 --> 03:31:17,399
like to thank Jim Ballard who is our

3209
03:31:22,269 --> 03:31:19,200
Mentor helped us through the entire

3210
03:31:25,610 --> 03:31:22,279
process additionally Dr William kitch

3211
03:31:27,889 --> 03:31:25,620
also a really really great mentor and

3212
03:31:29,870 --> 03:31:27,899
also the support from all of our friends

3213
03:31:32,389 --> 03:31:29,880

our faculty from the school they've

3214

03:31:34,550 --> 03:31:32,399

always been there to support us now

3215

03:31:36,950 --> 03:31:34,560

y'all are from West Texas so it was a

3216

03:31:38,389 --> 03:31:36,960

bit of a travel to get here how was it

3217

03:31:40,429 --> 03:31:38,399

um during your test flights did you have

3218

03:31:41,809 --> 03:31:40,439

a location near you where you could do

3219

03:31:43,550 --> 03:31:41,819

the test flight some people had to drive

3220

03:31:46,070 --> 03:31:43,560

you know hours to even do that part so

3221

03:31:49,190 --> 03:31:46,080

what what was your setup like we got

3222

03:31:51,590 --> 03:31:49,200

really lucky uh our launch field was

3223

03:31:54,590 --> 03:31:51,600

maybe 30 minutes away from San Angelo in

3224

03:31:56,269 --> 03:31:54,600

a little town of wall Texas so it was

3225

03:31:58,969 --> 03:31:56,279

very very close to us we could launch it

3226
03:32:01,250 --> 03:31:58,979
almost at any time that we we wanted to

3227
03:32:03,710 --> 03:32:01,260
we launched our full scale twice

3228
03:32:07,550 --> 03:32:03,720
successfully our subscale additionally

3229
03:32:10,010 --> 03:32:07,560
very successful okay wonderful

3230
03:32:11,090 --> 03:32:10,020
um I think we are going to

3231
03:32:14,330 --> 03:32:11,100
uh

3232
03:32:16,250 --> 03:32:14,340
go back to Lane for a little bit and see

3233
03:32:18,950 --> 03:32:16,260
what's going on and get an update all

3234
03:32:20,870 --> 03:32:18,960
right thanks Lauren thanks guys okay

3235
03:32:22,370 --> 03:32:20,880
next we have our first high school team

3236
03:32:24,290 --> 03:32:22,380
that we're going to interview today so

3237
03:32:27,950 --> 03:32:24,300
Guys Portland rocketry do you want to

3238
03:32:32,269 --> 03:32:29,750

all right so as I just said we have

3239

03:32:34,070 --> 03:32:32,279

Portland rocketry with us

3240

03:32:36,290 --> 03:32:34,080

um hi can you tell me your name hi my

3241

03:32:37,910 --> 03:32:36,300

name is nivid Singh what uh year are you

3242

03:32:38,990 --> 03:32:37,920

in school well I'm a senior in high

3243

03:32:40,309 --> 03:32:39,000

school okay

3244

03:32:42,349 --> 03:32:40,319

okay how's it going today how's the

3245

03:32:43,849 --> 03:32:42,359

energy with the team it's wonderful the

3246

03:32:45,769 --> 03:32:43,859

energy of the whole event is wonderful

3247

03:32:47,269 --> 03:32:45,779

and we're really excited to be here yeah

3248

03:32:49,309 --> 03:32:47,279

so tell me do you guys face any

3249

03:32:51,349 --> 03:32:49,319

challenges or difficulties this year

3250

03:32:53,510 --> 03:32:51,359

yeah so this year we decided to build an

3251
03:32:55,490 --> 03:32:53,520
Arabic system so the rocket wouldn't go

3252
03:32:58,490 --> 03:32:55,500
too high and it would increase the drag

3253
03:33:00,290 --> 03:32:58,500
of the rocket while it's going up so we

3254
03:33:02,030 --> 03:33:00,300
faced a lot of challenges as this was

3255
03:33:04,309 --> 03:33:02,040
something completely new that we've

3256
03:33:07,190 --> 03:33:04,319
never done before so we 3D printed the

3257
03:33:08,510 --> 03:33:07,200
first time and it turned out to be too

3258
03:33:10,429 --> 03:33:08,520
big and some of the parts didn't move

3259
03:33:12,469 --> 03:33:10,439
together and then we 3D printed it again

3260
03:33:14,330 --> 03:33:12,479
and some of the parts were still too big

3261
03:33:16,070 --> 03:33:14,340
so then we ended up sanding it down and

3262
03:33:17,870 --> 03:33:16,080
even with the programming and testing we

3263
03:33:19,670 --> 03:33:17,880

faced a lot of challenges and how to

3264

03:33:21,950 --> 03:33:19,680

find ways to simulate the flight data

3265

03:33:24,170 --> 03:33:21,960

and simulate the flight and on top of

3266

03:33:28,010 --> 03:33:24,180

that our we had snow all the way in

3267

03:33:29,630 --> 03:33:28,020

March so we had to uh our launches

3268

03:33:32,150 --> 03:33:29,640

almost got canceled and at one point we

3269

03:33:33,769 --> 03:33:32,160

launched in the snowy weather wow so how

3270

03:33:36,349 --> 03:33:33,779

was that navigating the cold weather you

3271

03:33:38,389 --> 03:33:36,359

guys have to just bundle up and go with

3272

03:33:40,010 --> 03:33:38,399

it yeah just bundle up and go with it

3273

03:33:41,510 --> 03:33:40,020

and

3274

03:33:43,070 --> 03:33:41,520

um I mean it's very interesting there it

3275

03:33:44,389 --> 03:33:43,080

kind of goes snow on and off during the

3276

03:33:46,190 --> 03:33:44,399

launch so it's just spraying that when

3277

03:33:47,990 --> 03:33:46,200

our rockets on there and launching it's

3278

03:33:50,210 --> 03:33:48,000

the good weather

3279

03:33:51,590 --> 03:33:50,220

um time yeah absolutely so can you tell

3280

03:33:53,929 --> 03:33:51,600

me a little bit more about your payload

3281

03:33:56,809 --> 03:33:53,939

in the rocket sure so our bill is the

3282

03:33:59,269 --> 03:33:56,819

Arabic system and we have three fins

3283

03:34:01,309 --> 03:33:59,279

um right about here and essentially

3284

03:34:03,710 --> 03:34:01,319

there's a system on board that takes the

3285

03:34:06,349 --> 03:34:03,720

acceleration data the velocity data and

3286

03:34:08,450 --> 03:34:06,359

the altitude data and it combines those

3287

03:34:09,650 --> 03:34:08,460

to find a predicted altitude and if it

3288

03:34:11,990 --> 03:34:09,660

thinks the rocket is going to go too

3289

03:34:15,469 --> 03:34:12,000

high or things of the rocket is going to

3290

03:34:17,330 --> 03:34:15,479

overshoot the projected altitude then it

3291

03:34:18,950 --> 03:34:17,340

deploys the air brakes and that kind of

3292

03:34:20,929 --> 03:34:18,960

pushes something out of the rocket which

3293

03:34:22,490 --> 03:34:20,939

increases the drag and because the drag

3294

03:34:24,290 --> 03:34:22,500

is increased it's able to make the

3295

03:34:26,510 --> 03:34:24,300

rocket go a little bit lower okay

3296

03:34:28,490 --> 03:34:26,520

awesome so is there anyone you want to

3297

03:34:30,170 --> 03:34:28,500

shout out or think today yeah so first

3298

03:34:31,910 --> 03:34:30,180

of all um I just want to thank everybody

3299

03:34:35,090 --> 03:34:31,920

on the team I have Anika here Matthew

3300

03:34:37,250 --> 03:34:35,100

Haley nikonch and Anish um Everybody did

3301

03:34:39,410 --> 03:34:37,260

a lot for the rocket and everybody

3302

03:34:41,269 --> 03:34:39,420

played a Monumental role in building the

3303

03:34:43,550 --> 03:34:41,279

rocket um I'd also like to thank our

3304

03:34:44,990 --> 03:34:43,560

Mentor George George spent a lot of time

3305

03:34:47,389 --> 03:34:45,000

with us going to launches with us and

3306

03:34:50,030 --> 03:34:47,399

was helping us along the whole process I

3307

03:34:51,590 --> 03:34:50,040

like to thank thank our coach John John

3308

03:34:53,150 --> 03:34:51,600

helped us all throughout the year and I

3309

03:34:56,809 --> 03:34:53,160

don't know how he'd be here without him

3310

03:34:58,670 --> 03:34:56,819

through a lot of challenges and a lot of

3311

03:35:00,650 --> 03:34:58,680

the things we faced he helped us kind of

3312

03:35:02,389 --> 03:35:00,660

figure out how we can overcome it we

3313

03:35:04,309 --> 03:35:02,399

spent a lot of late nights together and

3314

03:35:06,290 --> 03:35:04,319

we also worked out of his house so thank

3315

03:35:09,590 --> 03:35:06,300

you to him and then finally we want to

3316

03:35:11,090 --> 03:35:09,600

thank just all our parents for bringing

3317

03:35:12,710 --> 03:35:11,100

us here and helping us out and the team

3318

03:35:14,630 --> 03:35:12,720

from NASA for helping us out throughout

3319

03:35:16,070 --> 03:35:14,640

the year and especially with this

3320

03:35:18,290 --> 03:35:16,080

challenge kind of guiding us through the

3321

03:35:19,610 --> 03:35:18,300

process yeah awesome and my final

3322

03:35:21,769 --> 03:35:19,620

question would be if you could give

3323

03:35:23,929 --> 03:35:21,779

advice to a new team or a new competitor

3324

03:35:25,729 --> 03:35:23,939

what would your advice be I'm sorry

3325

03:35:28,490 --> 03:35:25,739

advice is just get out there find a

3326

03:35:29,450 --> 03:35:28,500

project that you like and just go for it

3327

03:35:31,070 --> 03:35:29,460

um at the beginning of the year the

3328

03:35:33,950 --> 03:35:31,080

Arabic system seemed very hard and

3329

03:35:36,110 --> 03:35:33,960

unreachable for us but um just by doing

3330

03:35:37,729 --> 03:35:36,120

it we learned so much and we just say we

3331

03:35:39,349 --> 03:35:37,739

have a project go for it okay awesome

3332

03:35:41,630 --> 03:35:39,359

well thank you so much for talking with

3333

03:35:43,610 --> 03:35:41,640

us today best of luck and we'll see you

3334

03:35:45,889 --> 03:35:43,620

guys later thank you

3335

03:35:48,290 --> 03:35:45,899

okay and now I think we're ready for

3336

03:36:36,710 --> 03:35:48,300

another round of launches so we're gonna

3337

03:36:40,969 --> 03:36:39,349

yeah

3338

03:36:42,889 --> 03:36:40,979

you know you're at a rocket launcher

3339

03:36:44,630 --> 03:36:42,899

there's always a lot of little confusion

3340

03:36:46,550 --> 03:36:44,640

a little this little that we're having a

3341

03:36:48,410 --> 03:36:46,560

little fun it's okay time's on our side

3342

03:36:50,210 --> 03:36:48,420

still got the sun in the air

3343

03:36:52,190 --> 03:36:50,220

so we just a couple things we had to

3344

03:36:54,650 --> 03:36:52,200

sort out so now we're gonna get back to

3345

03:36:56,870 --> 03:36:54,660

Flying some Rockets So

3346

03:36:58,910 --> 03:36:56,880

thank you uh oh yeah I've got a couple

3347

03:37:04,969 --> 03:36:58,920

claps there yes I thought those are

3348

03:37:11,870 --> 03:37:08,870

oh okay so on pad 62

3349

03:37:14,030 --> 03:37:11,880

we have a Spring Grove rocketry at us at

3350

03:37:16,670 --> 03:37:14,040

a Spring Grove Area School District out

3351
03:37:19,670 --> 03:37:16,680
of Spring Grove Pennsylvania name this

3352
03:37:23,690 --> 03:37:19,680
Rocket's Hyperion this does have the

3353
03:37:28,250 --> 03:37:25,910
they also have

3354
03:37:32,030 --> 03:37:28,260
to help it I guess mitigate some of the

3355
03:37:35,030 --> 03:37:32,040
uh for weather caulking on a scent this

3356
03:37:36,769 --> 03:37:35,040
has the Ava radio wave transmitting

3357
03:37:38,469 --> 03:37:36,779
three ground stations to measure

3358
03:37:41,210 --> 03:37:38,479
distance through

3359
03:37:43,370 --> 03:37:41,220
trilateration the location can be mapped

3360
03:37:47,269 --> 03:37:43,380
in three-dimensional space I hope you

3361
03:37:52,330 --> 03:37:50,450
so this rocket is flying on a CTI or

3362
03:37:57,349 --> 03:37:52,340
cesaroni

3363
03:37:59,750 --> 03:37:57,359

K750 Redline should go about 4 500 feet

3364

03:38:01,729 --> 03:37:59,760

this rocket what I remember looking at

3365

03:38:03,410 --> 03:38:01,739

it did have extra set of fins but it's

3366

03:38:06,710 --> 03:38:03,420

not a two stage

3367

03:38:08,210 --> 03:38:06,720

in all of the scale the subscaler

3368

03:38:09,410 --> 03:38:08,220

full-scale flights which have been

3369

03:38:12,170 --> 03:38:09,420

several of them

3370

03:38:14,750 --> 03:38:12,180

they have all performed within plus or

3371

03:38:16,790 --> 03:38:14,760

minus a hundred feet of their predicted

3372

03:38:18,290 --> 03:38:16,800

altitude so they've got this system down

3373

03:38:20,510 --> 03:38:18,300

pretty well

3374

03:38:24,830 --> 03:38:20,520

this team does also have uh seven

3375

03:38:31,790 --> 03:38:27,889

okay so on pad number 62

3376

03:38:34,790 --> 03:38:31,800

we have um we have Hyperion we have a

3377

03:38:47,389 --> 03:38:34,800

clear sky we have a clear range

3378

03:38:51,410 --> 03:38:49,550

okay just a sec we have to troubleshoot

3379

03:39:25,910 --> 03:38:51,420

some of the electronics so just hold

3380

03:39:29,510 --> 03:39:27,950

gotta cook those boxes a little bit so

3381

03:39:31,610 --> 03:39:29,520

we just gotta double check to make sure

3382

03:39:55,250 --> 03:39:31,620

that all the wires are plugged up hooked

3383

03:39:55,260 --> 03:40:16,870

um

3384

03:40:16,880 --> 03:40:50,530

thank you yeah

3385

03:40:50,540 --> 03:41:06,110

right now

3386

03:41:10,190 --> 03:41:08,030

welcome back to NASA student launch

3387

03:41:12,110 --> 03:41:10,200

challenge Lauren Perkins with NASA's

3388

03:41:13,670 --> 03:41:12,120

Marshall space flight center I have me

3389

03:41:15,170 --> 03:41:13,680

here Notre Dame we're going to get to

3390

03:41:16,670 --> 03:41:15,180

know a little bit about some of the

3391

03:41:19,309 --> 03:41:16,680

teams please tell me your name and your

3392

03:41:20,809 --> 03:41:19,319

role of the team hi I'm Lauren Falk I'm

3393

03:41:22,729 --> 03:41:20,819

a senior aerospace engineering major at

3394

03:41:24,710 --> 03:41:22,739

Notre Dame and I'm this year's uh

3395

03:41:27,110 --> 03:41:24,720

president of the rocketry club wonderful

3396

03:41:28,610 --> 03:41:27,120

and have y'all launched yet we have not

3397

03:41:30,889 --> 03:41:28,620

launched yet yeah we have not launched

3398

03:41:33,229 --> 03:41:30,899

yet okay how are you feeling about going

3399

03:41:35,330 --> 03:41:33,239

into the launch have you seen any teams

3400

03:41:37,130 --> 03:41:35,340

that you're super impressed with yeah

3401

03:41:38,389 --> 03:41:37,140

we're really excited to launch our last

3402

03:41:40,429 --> 03:41:38,399

demonstration flight went really

3403

03:41:42,349 --> 03:41:40,439

successfully so we're excited to do it

3404

03:41:44,750 --> 03:41:42,359

again today and hoping everything goes

3405

03:41:46,790 --> 03:41:44,760

to plan all of the launches today have

3406

03:41:48,889 --> 03:41:46,800

been really fun to watch we're excited

3407

03:41:50,150 --> 03:41:48,899

to keep watching okay now tell me a

3408

03:41:52,070 --> 03:41:50,160

little bit about your rocket which

3409

03:41:54,110 --> 03:41:52,080

obviously is behind you anything that

3410

03:41:56,570 --> 03:41:54,120

your is unique about it you're impressed

3411

03:41:59,750 --> 03:41:56,580

with about it yeah so this is the Brun

3412

03:42:03,469 --> 03:41:59,760

sting it's Notre Dame's 11th rocket

3413

03:42:06,950 --> 03:42:03,479

um it is uh how many feet is it 103.

3414

03:42:09,650 --> 03:42:06,960

it's 130 inches long and we're using an

3415

03:42:11,630 --> 03:42:09,660

I-class motor we have our experimental

3416

03:42:13,729 --> 03:42:11,640

payload as defined by NASA and we're

3417

03:42:15,670 --> 03:42:13,739

also using an air braking system called

3418

03:42:18,229 --> 03:42:15,680

the apogee control system

3419

03:42:19,969 --> 03:42:18,239

our name of the rocket the brunswing is

3420

03:42:22,130 --> 03:42:19,979

named after our Mentor Dave who's been

3421

03:42:24,650 --> 03:42:22,140

supporting the team for several years so

3422

03:42:27,290 --> 03:42:24,660

we're excited to have this named in his

3423

03:42:30,229 --> 03:42:27,300

honor that's wonderful and I know Notre

3424

03:42:31,670 --> 03:42:30,239

Dame is known for its tradition so do

3425

03:42:34,610 --> 03:42:31,680

you all have any traditions on the team

3426
03:42:37,130 --> 03:42:34,620
yeah we have a lot of traditions um all

3427
03:42:38,809 --> 03:42:37,140
super fun a couple traditions we have

3428
03:42:40,849 --> 03:42:38,819
are

3429
03:42:42,830 --> 03:42:40,859
um here I am blanking on Traditions

3430
03:42:44,809 --> 03:42:42,840
we're Notre Dame

3431
03:42:47,269 --> 03:42:44,819
um not so fun traditions of Landing in

3432
03:42:49,010 --> 03:42:47,279
trees yeah a not so fun tradition is

3433
03:42:51,349 --> 03:42:49,020
we've landed in trees twice this year

3434
03:42:53,389 --> 03:42:51,359
and also we've visited a bagel shop

3435
03:42:54,889 --> 03:42:53,399
before every launch to kind of get the

3436
03:42:56,330 --> 03:42:54,899
team together before we get to work

3437
03:42:57,710 --> 03:42:56,340
which is super fun

3438
03:43:00,410 --> 03:42:57,720

um and Huntsville has become an awesome

3439

03:43:03,050 --> 03:43:00,420

tradition of ours so yes this is your

3440

03:43:04,910 --> 03:43:03,060

11th year bye Philly yes so 11th year

3441

03:43:06,889 --> 03:43:04,920

good thing the tree line is pretty far

3442

03:43:08,630 --> 03:43:06,899

away here so that's good and I will say

3443

03:43:10,729 --> 03:43:08,640

I did have a bagel for breakfast so

3444

03:43:12,889 --> 03:43:10,739

things are looking good for y'all

3445

03:43:15,290 --> 03:43:12,899

um talk to me sort of about how the test

3446

03:43:16,969 --> 03:43:15,300

flights went uh some of the teams had to

3447

03:43:18,950 --> 03:43:16,979

drive you know four hours across

3448

03:43:20,929 --> 03:43:18,960

counties to go to the test flight so how

3449

03:43:22,910 --> 03:43:20,939

does that work for you yeah so our test

3450

03:43:25,309 --> 03:43:22,920

flights we do about 30 minutes away from

3451

03:43:27,290 --> 03:43:25,319

campus which is super convenient our

3452

03:43:30,349 --> 03:43:27,300

first flight the recover the ascent and

3453

03:43:32,510 --> 03:43:30,359

Recovery went perfectly until our nose

3454

03:43:34,969 --> 03:43:32,520

cone shot cord snapped and so the nose

3455

03:43:36,590 --> 03:43:34,979

cone free fell and landed in a tree the

3456

03:43:38,929 --> 03:43:36,600

rest of the rocket was perfectly fine

3457

03:43:41,330 --> 03:43:38,939

and undamaged but that nose cone had to

3458

03:43:43,250 --> 03:43:41,340

be retrieved from someone who climbed

3459

03:43:45,410 --> 03:43:43,260

into the tree to get it our second

3460

03:43:48,290 --> 03:43:45,420

rocket the main parachute deployed at

3461

03:43:49,849 --> 03:43:48,300

apogee and once again the rocket landed

3462

03:43:52,429 --> 03:43:49,859

in a tree this time it was a little more

3463

03:43:55,010 --> 03:43:52,439

Tangled and our third demonstration

3464

03:43:57,590 --> 03:43:55,020

flight went extremely well nominal

3465

03:43:59,389 --> 03:43:57,600

ascent and descent and then

3466

03:44:01,550 --> 03:43:59,399

the rocket danced with a couple trees

3467

03:44:04,610 --> 03:44:01,560

before we finally landed on the ground

3468

03:44:06,469 --> 03:44:04,620

safe and sound okay and

3469

03:44:08,210 --> 03:44:06,479

um obviously a lot of that was technical

3470

03:44:09,950 --> 03:44:08,220

challenges that you had to overcome were

3471

03:44:11,929 --> 03:44:09,960

there any personal or team challenges

3472

03:44:14,990 --> 03:44:11,939

that you also had to come uh overcome

3473

03:44:17,450 --> 03:44:15,000

yeah so the past few years we've been

3474

03:44:20,269 --> 03:44:17,460

led by a leadership team that's mostly

3475

03:44:22,370 --> 03:44:20,279

seniors this year we have a lot of young

3476

03:44:24,290 --> 03:44:22,380

Juniors and sophomores who are on our

3477

03:44:25,729 --> 03:44:24,300

leadership team all are super capable

3478

03:44:28,309 --> 03:44:25,739

but we've had to do a lot of learning

3479

03:44:30,110 --> 03:44:28,319

this year to get up to speed and be on

3480

03:44:31,610 --> 03:44:30,120

that same expertise level and I think

3481

03:44:32,750 --> 03:44:31,620

we've done an awesome job and we're

3482

03:44:34,610 --> 03:44:32,760

really proud that we've made it here to

3483

03:44:35,809 --> 03:44:34,620

Huntsville awesome we are so glad to

3484

03:44:37,969 --> 03:44:35,819

have you thank you so much for taking

3485

03:44:40,250 --> 03:44:37,979

some time to talk with us and good luck

3486

03:44:43,010 --> 03:44:40,260

now we're going to go to Will Bryan

3487

03:44:50,870 --> 03:44:43,020

who's going to talk to

3488

03:44:54,710 --> 03:44:52,849

one of our long time teams their stuff

3489

03:44:59,090 --> 03:44:54,720

with us is University of California

3490

03:45:01,849 --> 03:44:59,100

Davis Eclipse rocketry so guys we see

3491

03:45:03,710 --> 03:45:01,859

your awesome rocket the paint Scheme is

3492

03:45:05,030 --> 03:45:03,720

excellent how are you guys feeling

3493

03:45:06,889 --> 03:45:05,040

before launch

3494

03:45:08,510 --> 03:45:06,899

feeling a little nervous but confident

3495

03:45:10,309 --> 03:45:08,520

that our rocket will perform well and be

3496

03:45:11,210 --> 03:45:10,319

recovered successfully excellent so I

3497

03:45:12,830 --> 03:45:11,220

understand you have a really cool

3498

03:45:14,929 --> 03:45:12,840

feature on this rocket tell us about

3499

03:45:16,550 --> 03:45:14,939

that yeah so our fins can actually be

3500

03:45:18,469 --> 03:45:16,560

separated from our booster airframe

3501
03:45:19,910 --> 03:45:18,479
intentionally since we are a team from

3502
03:45:21,889 --> 03:45:19,920
California and had to fly to Huntsville

3503
03:45:23,929 --> 03:45:21,899
Alabama we thought well shipping it with

3504
03:45:25,490 --> 03:45:23,939
the fins on would be very expensive and

3505
03:45:26,809 --> 03:45:25,500
taking it in like suitcase and stuff so

3506
03:45:29,210 --> 03:45:26,819
we can actually just slide them right on

3507
03:45:32,090 --> 03:45:29,220
and fits right in a suitcase okay so

3508
03:45:36,050 --> 03:45:32,100
that's crazy cool so wait your fence

3509
03:45:37,429 --> 03:45:36,060
transported here in your suitcases yes

3510
03:45:39,469 --> 03:45:37,439
talk to us more about what this

3511
03:45:41,809 --> 03:45:39,479
experience has been like and what it's

3512
03:45:44,090 --> 03:45:41,819
like to get a rocket of this size from

3513
03:45:45,950 --> 03:45:44,100

California to North Alabama

3514

03:45:47,690 --> 03:45:45,960

we had to arrive at the airport about

3515

03:45:49,969 --> 03:45:47,700

four hours early just to make sure we

3516

03:45:51,590 --> 03:45:49,979

could get through TSA in time I wasn't

3517

03:45:56,030 --> 03:45:51,600

sure if they were going to stop us or

3518

03:45:57,469 --> 03:45:56,040

not for all the black powder residue

3519

03:45:59,030 --> 03:45:57,479

yeah

3520

03:46:00,410 --> 03:45:59,040

well that's awesome so tell us how

3521

03:46:02,150 --> 03:46:00,420

you're tackling that payload challenge

3522

03:46:03,590 --> 03:46:02,160

dealing with the camera deploying and

3523

03:46:05,690 --> 03:46:03,600

then taking signals from uh from our

3524

03:46:07,130 --> 03:46:05,700

Towers here yeah so unfortunately our

3525

03:46:08,809 --> 03:46:07,140

payload got damaged during our full

3526

03:46:10,790 --> 03:46:08,819

scale demonstration fight so we are

3527

03:46:12,769 --> 03:46:10,800

finding a dummy payload in here but

3528

03:46:14,690 --> 03:46:12,779

before it had worked somewhat as an arm

3529

03:46:16,550 --> 03:46:14,700

system as our nose cone Jetta sits

3530

03:46:19,010 --> 03:46:16,560

completely separately from the rocket so

3531

03:46:20,570 --> 03:46:19,020

our payload would then slide out of this

3532

03:46:22,670 --> 03:46:20,580

airframe still attached to the rocket

3533

03:46:24,110 --> 03:46:22,680

and have an arm system come up and like

3534

03:46:26,150 --> 03:46:24,120

take photos and receive the signals

3535

03:46:28,190 --> 03:46:26,160

using a handheld radio and a Raspberry

3536

03:46:29,990 --> 03:46:28,200

Pi oh that's really cool I'm sure it was

3537

03:46:31,490 --> 03:46:30,000

great and um still great that you guys

3538

03:46:33,530 --> 03:46:31,500

are still able to fly your rocket

3539

03:46:35,269 --> 03:46:33,540

despite payloads not working it's just

3540

03:46:37,250 --> 03:46:35,279

part of the business we're in so are you

3541

03:46:39,670 --> 03:46:37,260

all seniors or what year are you guys

3542

03:46:42,190 --> 03:46:39,680

and what years

3543

03:46:45,170 --> 03:46:42,200

sophomores through seniors yeah

3544

03:46:47,150 --> 03:46:45,180

so anybody want to work for NASA work in

3545

03:46:49,729 --> 03:46:47,160

the space flight industry one day

3546

03:46:51,590 --> 03:46:49,739

definitely that okay that'll just be a

3547

03:46:53,330 --> 03:46:51,600

little cool yeah

3548

03:46:54,710 --> 03:46:53,340

well that's awesome you're off to a

3549

03:46:56,630 --> 03:46:54,720

great start learning this engineering

3550

03:46:58,729 --> 03:46:56,640

challenge anybody back home you want to

3551

03:47:01,969 --> 03:46:58,739

say hi to anybody you want to thank

3552

03:47:05,870 --> 03:47:01,979

hi to my mom and my dad and also my dog

3553

03:47:08,750 --> 03:47:05,880

Max hello to all the moms all the dads

3554

03:47:11,630 --> 03:47:08,760

in to me most importantly to all the

3555

03:47:13,490 --> 03:47:11,640

dogs we say hi we thank you and with

3556

03:47:14,990 --> 03:47:13,500

that we're ready to go to launches you

3557

03:47:16,490 --> 03:47:15,000

see Davis we wish you the best of luck

3558

03:47:24,769 --> 03:47:16,500

let's go watch some more Rockets take

3559

03:47:29,389 --> 03:47:27,410

Okay so

3560

03:47:30,889 --> 03:47:29,399

we definitely pulled like some MacGyver

3561

03:47:34,130 --> 03:47:30,899

moves I know some of us don't know what

3562

03:47:35,929 --> 03:47:34,140

that is we had to do some wiring to wire

3563

03:47:37,729 --> 03:47:35,939

no wire I think we got it all we got it

3564

03:47:39,590 --> 03:47:37,739

all set up so that's what we said I did

3565

03:47:42,410 --> 03:47:39,600

also find out Spring Grove rocketry has

3566

03:47:44,750 --> 03:47:42,420

a 27 pound rocket and it's not cameras

3567

03:47:46,790 --> 03:47:44,760

it's Canard so they have four Canard

3568

03:47:48,590 --> 03:47:46,800

fins on this rocket okay this one's

3569

03:47:52,010 --> 03:47:48,600

flying on a CTI

3570

03:47:55,190 --> 03:47:52,020

uh K750 Redline should go about 4 500

3571

03:47:57,050 --> 03:47:55,200

feet and it's got the multiple uh

3572

03:47:58,729 --> 03:47:57,060

transmitting ground stations to

3573

03:48:00,889 --> 03:47:58,739

triangulate all its information on

3574

03:48:03,769 --> 03:48:00,899

landing on pad 62.

3575

03:48:06,190 --> 03:48:03,779

okay so now we have a clear sky we have

3576

03:48:11,269 --> 03:48:06,200

a clear range our boxes are now working

3577

03:48:18,410 --> 03:48:11,279

we are launching in five four three two

3578

03:48:18,420 --> 03:48:25,849

nice straight boost on that one

3579

03:48:25,859 --> 03:48:31,610

still below the clouds

3580

03:48:31,620 --> 03:48:35,150

there's an event

3581

03:48:35,160 --> 03:48:38,929

my shoes are filtered

3582

03:48:58,030 --> 03:48:40,670

their parachute looks good the mean

3583

03:49:08,630 --> 03:49:02,269

it's still still way up there probably

3584

03:49:14,030 --> 03:49:10,969

may even set for 600 on this one this

3585

03:49:16,490 --> 03:49:14,040

one has the three ground stations three

3586

03:49:20,809 --> 03:49:16,500

transmitters so hopefully it is starting

3587

03:49:24,110 --> 03:49:22,490

I wasn't supposed to be here all day

3588

03:49:29,630 --> 03:49:24,120

today either but they're short of camera

3589

03:49:32,809 --> 03:49:31,309

that's the awesome I had something

3590

03:49:35,269 --> 03:49:32,819

actually to do this morning they were at

3591

03:49:36,349 --> 03:49:35,279

a thousand feet oh no there's 600. all

3592

03:49:42,950 --> 03:49:36,359

right

3593

03:49:48,650 --> 03:49:45,710

very excited team there

3594

03:49:50,450 --> 03:49:48,660

one of the SOI competing teams so that

3595

03:49:56,870 --> 03:49:50,460

would be one of the middle and high

3596

03:50:03,370 --> 03:49:58,870

and it is down okay

3597

03:50:06,160 --> 03:50:03,380

continuing on to pad number 63. we have

3598

03:50:08,030 --> 03:50:06,170

WSU Everett rocket team

3599

03:50:10,550 --> 03:50:08,040

[Music]

3600

03:50:13,370 --> 03:50:10,560

they are very excited they've been

3601
03:50:15,290 --> 03:50:13,380
waiting patiently this is a school WSU

3602
03:50:18,590 --> 03:50:15,300
at Everett Washington

3603
03:50:20,349 --> 03:50:18,600
the name of the rocket is C1 flying or

3604
03:50:23,150 --> 03:50:20,359
weighs

3605
03:50:25,250 --> 03:50:23,160
4.40.27 pounds five and a half inch

3606
03:50:27,710 --> 03:50:25,260
diameter 10 feet tall

3607
03:50:30,889 --> 03:50:27,720
oh this is the one with the attempting

3608
03:50:34,070 --> 03:50:30,899
vertical Landing its legs deploy at 400

3609
03:50:36,110 --> 03:50:34,080
feet so it's got really large aluminum

3610
03:50:37,490 --> 03:50:36,120
legs can't miss it if you didn't see the

3611
03:50:39,469 --> 03:50:37,500
rocket

3612
03:50:41,690 --> 03:50:39,479
it will deploy 400 feet and we'll try to

3613
03:50:45,110 --> 03:50:41,700

essentially stick The Landing this is

3614

03:50:48,469 --> 03:50:45,120

the NASA usli servo

3615

03:50:51,410 --> 03:50:48,479

activated camera Landing leg deployment

3616

03:50:54,889 --> 03:50:51,420

system this rocket

3617

03:50:57,650 --> 03:50:54,899

is flying an accessory

3618

03:51:03,469 --> 03:50:57,660

um I-1030 Red Line

3619

03:51:07,910 --> 03:51:05,990

okay and then this this team I believe

3620

03:51:09,950 --> 03:51:07,920

it's their first time here

3621

03:51:12,290 --> 03:51:09,960

and they claim oh yeah that's the thing

3622

03:51:14,750 --> 03:51:12,300

this team Washington State University

3623

03:51:16,610 --> 03:51:14,760

and Everett they claim this rocket does

3624

03:51:17,630 --> 03:51:16,620

not Skip Leg Day that's what they were

3625

03:51:19,969 --> 03:51:17,640

telling me

3626

03:51:21,769 --> 03:51:19,979

Rocket's not painted but it isn't a

3627

03:51:23,330 --> 03:51:21,779

color changing wrap and they call it

3628

03:51:25,309 --> 03:51:23,340

magic color

3629

03:51:27,710 --> 03:51:25,319

they have a total of 12 team members

3630

03:51:29,990 --> 03:51:27,720

eight on the usli team

3631

03:51:31,550 --> 03:51:30,000

of them have actually certified level

3632

03:51:32,990 --> 03:51:31,560

two within the last year so that's

3633

03:51:36,290 --> 03:51:33,000

pretty pretty incredible they've

3634

03:51:37,969 --> 03:51:36,300

certified within that time

3635

03:51:40,130 --> 03:51:37,979

okay we

3636

03:51:43,790 --> 03:51:40,140

we are clear for launch we have a clear

3637

03:51:46,010 --> 03:51:43,800

sky clear Ranger pad 63 this rocket does

3638

03:51:58,070 --> 03:51:46,020

not skip like day we are going to launch

3639

03:52:11,030 --> 03:52:01,070

okay we're gonna try this again in five

3640

03:52:11,040 --> 03:52:21,429

no continuity on that one

3641

03:52:21,439 --> 03:52:28,849

thank you

3642

03:52:35,929 --> 03:52:33,710

okay we are continuing on this is on pad

3643

03:52:38,630 --> 03:52:35,939

number 80. this is the Purdue Space

3644

03:52:43,429 --> 03:52:40,670

oh yeah they're they're excited to be

3645

03:52:45,410 --> 03:52:43,439

here this is Purdue University at a West

3646

03:52:47,269 --> 03:52:45,420

Lafayette Indiana

3647

03:52:50,330 --> 03:52:47,279

the name of this rocket is student

3648

03:52:53,269 --> 03:52:50,340

launch system SLS I'd like that it's a

3649

03:52:54,610 --> 03:52:53,279

good name 49.3 pounds six inch in

3650

03:52:57,170 --> 03:52:54,620

diameter

3651
03:52:59,570 --> 03:52:57,180
8.17 feet tall

3652
03:53:03,650 --> 03:52:59,580
the experiment information is called

3653
03:53:07,790 --> 03:53:03,660
NASA SL payload stands for tacos it's a

3654
03:53:10,370 --> 03:53:07,800
tacos deployment system 360 degree view

3655
03:53:11,570 --> 03:53:10,380
as a two axis camera looks like they ran

3656
03:53:13,550 --> 03:53:11,580
out of ink so I can't read their

3657
03:53:19,190 --> 03:53:13,560
handwriting but it does have a custom

3658
03:53:23,269 --> 03:53:19,200
PCB and 80 80 3D printed self-orienting

3659
03:53:27,229 --> 03:53:23,279
camera two inch nose cone airfoil fins

3660
03:53:30,610 --> 03:53:27,239
made of resin hope you have all that

3661
03:53:33,650 --> 03:53:30,620
this rock is flying on a cesaroni l1350

3662
03:53:35,210 --> 03:53:33,660
sea star or classic should go about 4

3663
03:53:37,309 --> 03:53:35,220

000 feet

3664

03:53:41,330 --> 03:53:37,319

and I have some of the other acronyms

3665

03:53:43,370 --> 03:53:41,340

including iOS r d CES and taco so

3666

03:53:45,710 --> 03:53:43,380

bailout alphabet soup over there at

3667

03:53:47,510 --> 03:53:45,720

Purdue University I also did notice this

3668

03:53:49,130 --> 03:53:47,520

rocket to have some pretty intense motor

3669

03:53:51,650 --> 03:53:49,140

retention system

3670

03:53:53,450 --> 03:53:51,660

this team also did have a sandwich fin

3671

03:53:56,210 --> 03:53:53,460

system or the way they did the fin so

3672

03:54:00,170 --> 03:53:56,220

fiberglass core then a fiberglass cloth

3673

03:54:01,429 --> 03:54:00,180

laid up to solidify the fins I also

3674

03:54:03,590 --> 03:54:01,439

walked by when they were setting their

3675

03:54:05,269 --> 03:54:03,600

rocket up the team was doing a cheer and

3676

03:54:07,729 --> 03:54:05,279

clap when they complete the rocket

3677

03:54:09,889 --> 03:54:07,739

earlier this morning this is also a

3678

03:54:12,349 --> 03:54:09,899

large team we have 60 team members on

3679

03:54:15,110 --> 03:54:12,359

this team they have a total of seven

3680

03:54:16,729 --> 03:54:15,120

technical rocket teams 30 of the team

3681

03:54:20,030 --> 03:54:16,739

members are today

3682

03:54:22,070 --> 03:54:20,040

they in this University also if I'm

3683

03:54:24,229 --> 03:54:22,080

accurate they've also

3684

03:54:26,330 --> 03:54:24,239

um has have produced 25 different

3685

03:54:28,189 --> 03:54:26,340

astronauts over the years that have all

3686

03:54:30,769 --> 03:54:28,199

graduated from Purdue so that's pretty

3687

03:54:32,510 --> 03:54:30,779

incredible could be a future astronaut

3688

03:54:35,870 --> 03:54:32,520

in that group there today

3689

03:54:37,969 --> 03:54:35,880

okay we are ready to go on pad 80. we

3690

03:54:40,790 --> 03:54:37,979

have we have a clear sky we have a clear

3691

03:54:46,370 --> 03:54:40,800

range we're going to launch the SLS in

3692

03:54:54,410 --> 03:54:46,380

five four three two one ignition

3693

03:54:54,420 --> 03:54:59,170

should go about 4050 feet

3694

03:54:59,180 --> 03:55:03,590

arcing over

3695

03:55:03,600 --> 03:55:11,929

there's an event

3696

03:55:28,189 --> 03:55:14,450

yep small drogue it looks like the main

3697

03:55:40,010 --> 03:55:29,929

okay we're still a couple thousand feet

3698

03:55:43,849 --> 03:55:42,410

okay we're about a thousand feet so we

3699

03:55:45,110 --> 03:55:43,859

should have the main parachute any

3700

03:55:46,969 --> 03:55:45,120

moment now

3701
03:55:55,010 --> 03:55:46,979
there it is

3702
03:56:00,670 --> 03:55:57,849
is it was it boiler up Broiler up

3703
03:56:02,750 --> 03:56:00,680
Broiler boiler something

3704
03:56:07,969 --> 03:56:02,760
Boilermaker yeah boiler boiler up

3705
03:56:18,110 --> 03:56:10,250
oh it just missed that look at that

3706
03:56:24,530 --> 03:56:22,189
okay on pad 81 team name is Project Zeus

3707
03:56:28,610 --> 03:56:26,450
James Madison University out of

3708
03:56:32,410 --> 03:56:28,620
Harrisonburg Virginia

3709
03:56:35,689 --> 03:56:32,420
the name of the rocket is the pencil

3710
03:56:37,189 --> 03:56:35,699
41.5 pounds six inch in diameter 10 and

3711
03:56:38,630 --> 03:56:37,199
a half feet tall

3712
03:56:40,849 --> 03:56:38,640
they did want to let everybody know

3713
03:56:43,070 --> 03:56:40,859

they're using 15-15 rail buttons in case

3714

03:56:44,929 --> 03:56:43,080
anyone was curious to know the

3715

03:56:48,410 --> 03:56:44,939
experiment information is using a

3716

03:56:49,670 --> 03:56:48,420
planetary image capturing system AKA

3717

03:56:52,429 --> 03:56:49,680
picks

3718

03:56:54,290 --> 03:56:52,439
it has a drawer like system that pulls a

3719

03:56:55,610 --> 03:56:54,300
camera out of a coupler on a rotating

3720

03:56:57,530 --> 03:56:55,620
platform

3721

03:57:00,830 --> 03:56:57,540
upon the main parachute deployment

3722

03:57:03,110 --> 03:57:00,840
generated by snatch Force

3723

03:57:06,170 --> 03:57:03,120
hope you got that

3724

03:57:10,189 --> 03:57:06,180
this is flying on a cesaroni I1720 white

3725

03:57:12,170 --> 03:57:10,199
Thunder should go about 4 600 feet

3726

03:57:13,790 --> 03:57:12,180

and yes they have these aluminum

3727

03:57:15,830 --> 03:57:13,800

channels on the outside that's supposed

3728

03:57:17,990 --> 03:57:15,840

to help

3729

03:57:20,030 --> 03:57:18,000

and then it looks like they had some

3730

03:57:21,110 --> 03:57:20,040

pretty heavy duty channels so I don't

3731

03:57:23,389 --> 03:57:21,120

know if they took it out of a dresser

3732

03:57:25,849 --> 03:57:23,399

drawer what's the story there and the

3733

03:57:27,830 --> 03:57:25,859

reason why they're called Zeus 2 and

3734

03:57:30,170 --> 03:57:27,840

they painted it in the number two pencil

3735

03:57:32,450 --> 03:57:30,180

so that's why they went with that paint

3736

03:57:35,630 --> 03:57:32,460

theme which is pretty cool

3737

03:57:38,330 --> 03:57:35,640

and then they did say the subscale

3738

03:57:41,510 --> 03:57:38,340

flight landed 100 feet high up in a

3739

03:57:43,010 --> 03:57:41,520

higher apparatus maybe a tree not sure

3740

03:57:46,070 --> 03:57:43,020

how they got it back but it was an

3741

03:57:48,650 --> 03:57:46,080

interesting way how they got that back

3742

03:57:51,769 --> 03:57:48,660

we are going to launch the pencil on pad

3743

03:57:54,110 --> 03:57:51,779

81 we have a clear sky we have a clear

3744

03:58:05,870 --> 03:57:54,120

range we're going to launch the pencil

3745

03:58:10,910 --> 03:58:08,630

good boost on that one

3746

03:58:12,830 --> 03:58:10,920

maybe some casting tube on that I don't

3747

03:58:14,929 --> 03:58:12,840

know that was a healthy there in the

3748

03:58:19,250 --> 03:58:17,689

should go about 4 600 feet

3749

03:58:25,189 --> 03:58:19,260

possibly

3750

03:58:29,809 --> 03:58:27,830

pencils looking good so far the main is

3751

03:58:54,469 --> 03:58:29,819

set for 600 feet

3752

04:03:00,729 --> 03:58:58,670

okay should have the main parachute out

3753

04:03:04,670 --> 04:03:02,990

well hey everyone we are back here with

3754

04:03:06,530 --> 04:03:04,680

our team interview Booth as you can see

3755

04:03:08,750 --> 04:03:06,540

stuff happens with rocketry it's just

3756

04:03:10,550 --> 04:03:08,760

the business we're in so while our range

3757

04:03:11,929 --> 04:03:10,560

safety crew is downrange taking care of

3758

04:03:13,309 --> 04:03:11,939

everything making sure that we all stay

3759

04:03:17,030 --> 04:03:13,319

safe we're going to bring you some more

3760

04:03:19,729 --> 04:03:17,040

team interviews up next is Purdue Purdue

3761

04:03:22,130 --> 04:03:19,739

as you may know is kind of astronaut

3762

04:03:23,929 --> 04:03:22,140

Academy lots of astronauts including the

3763

04:03:26,330 --> 04:03:23,939

famous Neil Armstrong the first American

3764

04:03:28,610 --> 04:03:26,340

the first person to ever step foot on

3765

04:03:30,349 --> 04:03:28,620

the Moon is from Purdue with the NASA's

3766

04:03:31,969 --> 04:03:30,359

Artemis program we are going to be

3767

04:03:33,349 --> 04:03:31,979

sending people back to the moon the

3768

04:03:35,929 --> 04:03:33,359

first woman the first person of color

3769

04:03:38,090 --> 04:03:35,939

and a whole new generation of astronauts

3770

04:03:40,070 --> 04:03:38,100

are going to explore the moon like never

3771

04:03:41,929 --> 04:03:40,080

before we're going to carry on and Neil

3772

04:03:44,150 --> 04:03:41,939

Armstrong and all the Apollo Astronauts

3773

04:03:46,130 --> 04:03:44,160

footsteps part of that is Rockets we

3774

04:03:47,750 --> 04:03:46,140

have the NASA space launch system our

3775

04:03:49,790 --> 04:03:47,760

giant rocket that we just lose for the

3776

04:03:51,769 --> 04:03:49,800

first time in November kind of on a

3777

04:03:53,689 --> 04:03:51,779

smaller scale Some solid propellants

3778

04:03:55,550 --> 04:03:53,699

that we use with our solid rocket

3779

04:03:57,530 --> 04:03:55,560

boosters you guys use solid propellant

3780

04:03:58,490 --> 04:03:57,540

in your Rockets tell us how your flight

3781

04:04:04,910 --> 04:03:58,500

went

3782

04:04:06,769 --> 04:04:04,920

close to our Target apogee we're really

3783

04:04:08,150 --> 04:04:06,779

happy to see the results of the our

3784

04:04:09,349 --> 04:04:08,160

altimeter When We Gather and we're

3785

04:04:11,030 --> 04:04:09,359

really looking forward to see our

3786

04:04:13,130 --> 04:04:11,040

payload on the ground there we can't

3787

04:04:15,050 --> 04:04:13,140

wait so talk to us about the altitude

3788

04:04:16,790 --> 04:04:15,060

because for our viewers at home you may

3789

04:04:18,710 --> 04:04:16,800

not know teams actually you guys had to

3790

04:04:20,990 --> 04:04:18,720

predict your altitude way back in

3791

04:04:22,969 --> 04:04:21,000

November I probably before your flight

3792

04:04:25,429 --> 04:04:22,979

vehicle is even built right yes that's

3793

04:04:27,410 --> 04:04:25,439

correct so uh for preliminary design

3794

04:04:29,630 --> 04:04:27,420

review that's due in November we have to

3795

04:04:33,110 --> 04:04:29,640

pick our Target apogee that we want to

3796

04:04:34,790 --> 04:04:33,120

achieve today in Alabama so we just hope

3797

04:04:36,070 --> 04:04:34,800

that our flight predictions and our

3798

04:04:38,510 --> 04:04:36,080

manufacturing of our rocket is

3799

04:04:40,490 --> 04:04:38,520

accredited enough so we can hit as well

3800

04:04:43,010 --> 04:04:40,500

as we did today so what goes into

3801
04:04:44,870 --> 04:04:43,020
predicting an altitude like that to my

3802
04:04:47,389 --> 04:04:44,880
brain that's that's like trying to

3803
04:04:49,910 --> 04:04:47,399
predict the weather in Costa Rica on

3804
04:04:51,650 --> 04:04:49,920
July 14th it is a little like that

3805
04:04:54,530 --> 04:04:51,660
because the wind really impacts our

3806
04:04:56,809 --> 04:04:54,540
altitude so we kind of make a research

3807
04:04:59,210 --> 04:04:56,819
on like what's the wind it can be in

3808
04:05:00,710 --> 04:04:59,220
Alabama in April and we try to do six

3809
04:05:03,170 --> 04:05:00,720
degrees of freedom simulations of our

3810
04:05:04,849 --> 04:05:03,180
rocket flight profile so to see what's

3811
04:05:07,189 --> 04:05:04,859
the most likely apogee that we're going

3812
04:05:08,510 --> 04:05:07,199
a heat that's excellent now is there

3813
04:05:10,370 --> 04:05:08,520

anything cool about your rocket that you

3814

04:05:11,929 --> 04:05:10,380

guys are excited to talk about there are

3815

04:05:14,210 --> 04:05:11,939

so many cool things about rubber rocket

3816

04:05:15,710 --> 04:05:14,220

to be honest I think I I can talk in

3817

04:05:17,630 --> 04:05:15,720

here like for an hour about that cool

3818

04:05:19,130 --> 04:05:17,640

stuff in our rocket from the nose cone

3819

04:05:21,050 --> 04:05:19,140

all the way through paled avionics and

3820

04:05:23,090 --> 04:05:21,060

all the way to booster section from that

3821

04:05:25,010 --> 04:05:23,100

cool things last year uh we did really

3822

04:05:26,750 --> 04:05:25,020

good job 3D printing our rocket this

3823

04:05:28,610 --> 04:05:26,760

year uh we're also picking up on that so

3824

04:05:31,130 --> 04:05:28,620

our nose cone is 3D printed with wet

3825

04:05:33,530 --> 04:05:31,140

layout of fiberglass on it our fins are

3826

04:05:36,229 --> 04:05:33,540

also we're using 3D print to create

3827

04:05:38,990 --> 04:05:36,239

also other things are like a fiberglass

3828

04:05:40,849 --> 04:05:39,000

sheet resin cast and then fiberglass on

3829

04:05:42,290 --> 04:05:40,859

it so it's a really cool engineering and

3830

04:05:44,330 --> 04:05:42,300

like really cool design were developed

3831

04:05:45,889 --> 04:05:44,340

for our payload it's mostly 3D printed

3832

04:05:47,570 --> 04:05:45,899

so really really proud of the design we

3833

04:05:49,610 --> 04:05:47,580

came up with and it's fully functional

3834

04:05:51,410 --> 04:05:49,620

this year so we're really happy about it

3835

04:05:52,729 --> 04:05:51,420

what's so cool and 3D printing is such a

3836

04:05:55,070 --> 04:05:52,739

huge part of the space flight industry

3837

04:05:56,630 --> 04:05:55,080

only grabbing more and more attention as

3838

04:05:58,550 --> 04:05:56,640

we try to tackle some really ambitious

3839

04:05:59,630 --> 04:05:58,560

goals now you guys coming for Purdue I

3840

04:06:02,710 --> 04:05:59,640

have to ask anybody want to be an

3841

04:06:06,769 --> 04:06:04,729

could not have said it better myself

3842

04:06:08,929 --> 04:06:06,779

Purdue anybody back home you guys want

3843

04:06:10,130 --> 04:06:08,939

to think uh yeah definitely want to

3844

04:06:12,170 --> 04:06:10,140

thank all the produced based program

3845

04:06:14,090 --> 04:06:12,180

that's left in Indiana for all the

3846

04:06:16,670 --> 04:06:14,100

support we gave we got from you and

3847

04:06:19,189 --> 04:06:16,680

definitely all of our parents like

3848

04:06:21,290 --> 04:06:19,199

yeah just thank you for supporting us on

3849

04:06:24,290 --> 04:06:21,300

the way and a huge thanks to all of you

3850

04:06:25,849 --> 04:06:24,300

from Purdue SLS and NASA SS we wish you

3851
04:06:27,349 --> 04:06:25,859
the best of luck I know your rock is out

3852
04:06:28,790 --> 04:06:27,359
there you're anxious to get to it we're

3853
04:06:30,110 --> 04:06:28,800
just like you know if we can we would

3854
04:06:33,769 --> 04:06:30,120
just run over there just to pick it up

3855
04:06:35,030 --> 04:06:33,779
right now yeah well we can't wait to

3856
04:06:36,290 --> 04:06:35,040
hear what those results are be sure to

3857
04:06:37,610 --> 04:06:36,300
follow them on their social media

3858
04:06:38,929 --> 04:06:37,620
channels as we go throughout the

3859
04:06:40,729 --> 04:06:38,939
competition guys thank you so much for

3860
04:06:42,650 --> 04:06:40,739
being here we look forward to seeing it

3861
04:06:44,510 --> 04:06:42,660
see how everything went yeah all right

3862
04:06:46,790 --> 04:06:44,520
so we're gonna bring in uh Lauren

3863
04:06:48,170 --> 04:06:46,800

Perkins my awesome colleague and

3864

04:06:49,910 --> 04:06:48,180

Lauren's gonna bring us our next team

3865

04:06:52,309 --> 04:06:49,920

Lauren who do you have coming in with us

3866

04:06:57,469 --> 04:06:56,210

State they are with a team in Texas

3867

04:06:59,330 --> 04:06:57,479

um so we're going to hear a little bit

3868

04:07:03,229 --> 04:06:59,340

about their rocket and some challenges

3869

04:07:05,030 --> 04:07:03,239

that they've actually had to overcome so

3870

04:07:07,189 --> 04:07:05,040

can you all both tell me your name and

3871

04:07:09,469 --> 04:07:07,199

your roles on the team today

3872

04:07:11,330 --> 04:07:09,479

my name is Jay stichford I am a support

3873

04:07:13,010 --> 04:07:11,340

engineer specifically within the payload

3874

04:07:14,929 --> 04:07:13,020

section my name is Jay Green I'm the

3875

04:07:16,729 --> 04:07:14,939

project for the project manager

3876

04:07:18,530 --> 04:07:16,739

wonderful and how is it feeling being

3877

04:07:20,030 --> 04:07:18,540

here today you're getting ready to

3878

04:07:22,130 --> 04:07:20,040

launch you've seen a lot of launches

3879

04:07:25,010 --> 04:07:22,140

already so what's the what's the feeling

3880

04:07:26,510 --> 04:07:25,020

like we're just extremely excited this

3881

04:07:27,590 --> 04:07:26,520

is the first time for our engineering

3882

04:07:29,870 --> 04:07:27,600

program that we've been able to

3883

04:07:31,969 --> 04:07:29,880

participate in the usli competition so

3884

04:07:34,130 --> 04:07:31,979

we're elated to be here we've seen some

3885

04:07:36,410 --> 04:07:34,140

really cool fights already and we're

3886

04:07:38,150 --> 04:07:36,420

just hoping to be on par with those and

3887

04:07:40,130 --> 04:07:38,160

we're just happy to be here

3888

04:07:41,570 --> 04:07:40,140

and I hear that there may be some

3889

04:07:43,849 --> 04:07:41,580

challenges that y'all kind of had to

3890

04:07:45,229 --> 04:07:43,859

overcome to get to this point so tell me

3891

04:07:47,870 --> 04:07:45,239

a little bit about some of those

3892

04:07:49,849 --> 04:07:47,880

challenges so I would say our primary

3893

04:07:52,130 --> 04:07:49,859

challenge as we've also discussed with

3894

04:07:54,469 --> 04:07:52,140

other teams has been with our payload a

3895

04:07:56,689 --> 04:07:54,479

lot of implications there and uh we

3896

04:07:58,910 --> 04:07:56,699

actually about a week ago had to rebuild

3897

04:08:00,950 --> 04:07:58,920

the rocket so we kind of put on Fast

3898

04:08:02,750 --> 04:08:00,960

Track because we really we were really

3899

04:08:05,150 --> 04:08:02,760

motivated and we're willing to come and

3900

04:08:06,469 --> 04:08:05,160

uh at launch here so about a week ago I

3901

04:08:08,210 --> 04:08:06,479

had to start rebuilding the rocket but

3902

04:08:10,250 --> 04:08:08,220

we put in overdrive and we were able to

3903

04:08:11,570 --> 04:08:10,260

make it wonderful so tell me a little

3904

04:08:12,889 --> 04:08:11,580

bit about the rocket what are you most

3905

04:08:16,010 --> 04:08:12,899

proud of anything you need think about

3906

04:08:22,849 --> 04:08:19,150

besides as if the Rocket's here

3907

04:08:25,910 --> 04:08:22,859

uh We've it's our senior design project

3908

04:08:27,650 --> 04:08:25,920

and uh starting back in August none of

3909

04:08:29,630 --> 04:08:27,660

us knew anything about rocket stream so

3910

04:08:32,030 --> 04:08:29,640

just to make it this far make the

3911

04:08:33,710 --> 04:08:32,040

Huntsville and have a functioning rocket

3912

04:08:36,650 --> 04:08:33,720

is a very big accomplishment we're very

3913

04:08:40,070 --> 04:08:36,660

proud very proud wonderful and what is

3914

04:08:42,110 --> 04:08:40,080

the um your test situation

3915

04:08:44,210 --> 04:08:42,120

drive you know four hours to even find a

3916

04:08:45,469 --> 04:08:44,220

test site I imagine in Texas it's a

3917

04:08:47,990 --> 04:08:45,479

little bit flatter so what is that like

3918

04:08:49,370 --> 04:08:48,000

for you so uh a majority of our test

3919

04:08:51,229 --> 04:08:49,380

launch sites were actually within the

3920

04:08:53,689 --> 04:08:51,239

two hour time frame so it was pretty

3921

04:08:56,469 --> 04:08:53,699

convenient being able to just drive out

3922

04:08:58,910 --> 04:08:56,479

there and thankfully not long distances

3923

04:09:00,950 --> 04:08:58,920

what are you most nervous about getting

3924

04:09:03,530 --> 04:09:00,960

into the launch

3925

04:09:05,269 --> 04:09:03,540

um I I just I'm speaking for myself and

3926

04:09:06,950 --> 04:09:05,279

Jay you can add on to this

3927

04:09:08,389 --> 04:09:06,960

um I I just think we're hoping for a

3928

04:09:09,530 --> 04:09:08,399

successful recovery

3929

04:09:11,510 --> 04:09:09,540

um just so that we can launch it up

3930

04:09:13,729 --> 04:09:11,520

there and have everything uh operate

3931

04:09:16,070 --> 04:09:13,739

perfectly at apogee and then our main

3932

04:09:17,630 --> 04:09:16,080

parachute so I would say a recovery but

3933

04:09:18,769 --> 04:09:17,640

Jay would you like that I'm completely

3934

04:09:20,570 --> 04:09:18,779

confident that we're going to recover

3935

04:09:22,550 --> 04:09:20,580

the rocket completely confident my team

3936

04:09:23,689 --> 04:09:22,560

we've had a lot of good launches I think

3937

04:09:25,370 --> 04:09:23,699

we'll do this one

3938

04:09:27,769 --> 04:09:25,380

wonderful anybody you want to give a

3939

04:09:30,229 --> 04:09:27,779

shout out to back home any of y'all just

3940

04:09:32,750 --> 04:09:30,239

uh you know wave to the camera and say

3941

04:09:34,429 --> 04:09:32,760

thank you to yeah

3942

04:09:36,349 --> 04:09:34,439

um yeah so we have had a wonderful team

3943

04:09:38,269 --> 04:09:36,359

we had a big shout out to Jim Jarvis

3944

04:09:40,729 --> 04:09:38,279

he's been our Mentor every step of the

3945

04:09:43,610 --> 04:09:40,739

wave is he's helped us and uh our Dean

3946

04:09:46,130 --> 04:09:43,620

back home Dr uh Rafael landetta uh Dr

3947

04:09:48,050 --> 04:09:46,140

Zhu our advisor Miss feeman they've all

3948

04:09:50,750 --> 04:09:48,060

been so supportive of our first year

3949

04:09:52,130 --> 04:09:50,760

being able to engage in this so okay

3950

04:09:54,469 --> 04:09:52,140

wonderful

3951

04:09:56,870 --> 04:09:54,479

um I think we're gonna head back over to

3952

04:09:58,250 --> 04:09:56,880

will but thank you so much and wishing

3953

04:10:00,110 --> 04:09:58,260

you the best of luck in your volley

3954

04:10:02,510 --> 04:10:00,120

thank you thank you

3955

04:10:04,250 --> 04:10:02,520

yeah Lauren I'd love to see Tarleton

3956

04:10:05,929 --> 04:10:04,260

here as a team that when I first started

3957

04:10:07,250 --> 04:10:05,939

uh participating with student launch it

3958

04:10:09,410 --> 04:10:07,260

was always a team that I got to see and

3959

04:10:11,689 --> 04:10:09,420

so it brings back a lot of fond memories

3960

04:10:14,450 --> 04:10:11,699

we're joined by the University of

3961

04:10:17,389 --> 04:10:14,460

Florida the chomping Gators are with us

3962

04:10:19,790 --> 04:10:17,399

now all right so Florida you guys your

3963

04:10:21,349 --> 04:10:19,800

rocket launched how did it go it seemed

3964

04:10:22,670 --> 04:10:21,359

to go really well we launched in the

3965

04:10:24,050 --> 04:10:22,680

beginning of volley too but we haven't

3966

04:10:25,610 --> 04:10:24,060

been able to get it back yet because of

3967

04:10:27,530 --> 04:10:25,620

the delays but it looks like it went

3968

04:10:29,750 --> 04:10:27,540

really well at least so how high were

3969

04:10:32,389 --> 04:10:29,760

you targeting uh to hit today

3970

04:10:38,210 --> 04:10:32,399

Target was 46 but we predict 40

3971

04:10:41,750 --> 04:10:40,130

. hard watching especially the mining

3972

04:10:50,450 --> 04:10:41,760

experience size how do you think how

3973

04:10:54,650 --> 04:10:52,189

limbs from the past flights we were off

3974

04:10:56,510 --> 04:10:54,660

by one foot on our payload demo flight

3975

04:10:58,790 --> 04:10:56,520

so if that's anything to be trusted then

3976

04:11:00,830 --> 04:10:58,800

I think we got pretty close I'm gonna

3977

04:11:02,389 --> 04:11:00,840

say if you hit it by one foot you're

3978

04:11:04,309 --> 04:11:02,399

probably pretty good containers for that

3979

04:11:06,889 --> 04:11:04,319

altitude announcements here

3980

04:11:09,050 --> 04:11:06,899

so the teams that are on the pads right

3981

04:11:11,689 --> 04:11:09,060

now in just a second everyone go out and

3982

04:11:13,030 --> 04:11:11,699

pull those rockets off the pads because

3983

04:11:15,650 --> 04:11:13,040

they've been sitting for a while

3984

04:11:17,929 --> 04:11:15,660

essentially we'll create a fourth volley

3985

04:11:20,030 --> 04:11:17,939

and we'll have those two rockets plus

3986

04:11:23,210 --> 04:11:20,040

any other ones if you're in the third

3987

04:11:26,090 --> 04:11:23,220

volley you can make sure you coordinate

3988

04:11:28,370 --> 04:11:26,100

with check-in and RSO you can go set

3989

04:11:30,170 --> 04:11:28,380

those up out there for those teams that

3990

04:11:32,030 --> 04:11:30,180

need to recover the Rockets you can go

3991

04:11:34,670 --> 04:11:32,040

out and recover your Rockets you just

3992

04:11:36,469 --> 04:11:34,680

gotta stay on the outside of the range

3993

04:11:39,229 --> 04:11:36,479

and then we are in the process of

3994

04:11:40,790 --> 04:11:39,239

getting some we're getting recharge on

3995

04:11:43,670 --> 04:11:40,800

our fire suppression system and then

3996

04:11:46,130 --> 04:11:43,680

updating our pad boxes so you've got the

3997

04:11:49,010 --> 04:11:46,140

rockets on the pads takes those off

3998

04:11:50,750 --> 04:11:49,020

we'll have a fourth volley if you are on

3999

04:11:52,010 --> 04:11:50,760

the third volley you can go out make

4000

04:11:55,130 --> 04:11:52,020

sure you go through your check-in go

4001
04:11:56,689 --> 04:11:55,140
through RSO and go set all that up if

4002
04:11:58,849 --> 04:11:56,699
you need to recover your Rockets go

4003
04:12:02,150 --> 04:11:58,859
recover your Rockets So any questions

4004
04:12:03,950 --> 04:12:02,160
come to the lco or RSO desks

4005
04:12:07,130 --> 04:12:03,960
all right and as you heard that

4006
04:12:09,290 --> 04:12:07,140
announcement if you haven't flown also

4007
04:12:11,870 --> 04:12:09,300
and your rockets on the pad pick up your

4008
04:12:14,269 --> 04:12:11,880
flight cards too

4009
04:12:16,550 --> 04:12:14,279
this is the result this is how real

4010
04:12:17,990 --> 04:12:16,560
rockets go this is how real launches go

4011
04:12:19,309 --> 04:12:18,000
so teams are able to go out and recover

4012
04:12:20,929 --> 04:12:19,319
their Rockets I'm sure you guys are

4013
04:12:22,429 --> 04:12:20,939

going to be anxious to uh to recover

4014

04:12:24,950 --> 04:12:22,439

your rocket and we'll let you out there

4015

04:12:27,170 --> 04:12:24,960

here just uh if they're pulling your

4016

04:12:29,090 --> 04:12:27,180

rocket off the pad pick up your flight

4017

04:12:31,070 --> 04:12:29,100

card first

4018

04:12:32,389 --> 04:12:31,080

so the teams that have launched on

4019

04:12:33,950 --> 04:12:32,399

volley too they're going to go out and

4020

04:12:35,990 --> 04:12:33,960

recover their Rockets of all the three

4021

04:12:38,210 --> 04:12:36,000

rockets are on their way out to the pad

4022

04:12:39,650 --> 04:12:38,220

you can see the crowd behind us as these

4023

04:12:41,630 --> 04:12:39,660

Rockets are going to be coming and going

4024

04:12:43,429 --> 04:12:41,640

Florida I wanted to ask you how did you

4025

04:12:45,769 --> 04:12:43,439

how do you do you tackle the payload

4026

04:12:47,210 --> 04:12:45,779

challenge this year yeah so um our

4027

04:12:49,490 --> 04:12:47,220

payload relied on the fact that our

4028

04:12:52,070 --> 04:12:49,500

rocket has three fins so we have three

4029

04:12:54,229 --> 04:12:52,080

camera systems one aligned with each fin

4030

04:12:56,630 --> 04:12:54,239

so that when the rocket inevitably lands

4031

04:12:58,490 --> 04:12:56,640

on two of the fins one fan will be one

4032

04:13:00,590 --> 04:12:58,500

fin will be facing up therefore One

4033

04:13:02,210 --> 04:13:00,600

camera system will be facing up so the

4034

04:13:04,670 --> 04:13:02,220

camera can rotate out of the airframe

4035

04:13:06,830 --> 04:13:04,680

and then um following the radio commands

4036

04:13:07,550 --> 04:13:06,840

take the pictures and rotate and do all

4037

04:13:09,349 --> 04:13:07,560

the

4038

04:13:11,210 --> 04:13:09,359

um commands I would say so you're using

4039

04:13:12,530 --> 04:13:11,220

gravity really as as kind of one of your

4040

04:13:14,389 --> 04:13:12,540

aids to make sure that you have a camera

4041

04:13:16,130 --> 04:13:14,399

that can collect the signal that's

4042

04:13:17,570 --> 04:13:16,140

awesome so I know you're anxious to go

4043

04:13:19,250 --> 04:13:17,580

get your rocket anybody back home you

4044

04:13:21,469 --> 04:13:19,260

want to thank any sponsors you want to

4045

04:13:24,950 --> 04:13:21,479

say hi to yeah so we'd like to thank our

4046

04:13:27,710 --> 04:13:24,960

faculty advisor uh Sean nimi and then

4047

04:13:30,170 --> 04:13:27,720

we'd like to thank our Mentor uh Jimmy

4048

04:13:31,490 --> 04:13:30,180

Yan and then Eric you wanna yeah and

4049

04:13:33,469 --> 04:13:31,500

we'd also like to thank our corporate

4050

04:13:35,689 --> 04:13:33,479

sponsors uh blue origin aerojet

4051

04:13:39,110 --> 04:13:35,699

Rocketdyne and then Hands-On Gainesville

4052

04:13:40,490 --> 04:13:39,120

as well as our Mae department at UF and

4053

04:13:42,950 --> 04:13:40,500

then also we really want to thank Tampa

4054

04:13:44,450 --> 04:13:42,960

Bay rocketry Association as well for

4055

04:13:46,790 --> 04:13:44,460

helping us get our rocket out of a tree

4056

04:13:48,410 --> 04:13:46,800

about a month ago so yeah they're

4057

04:13:50,330 --> 04:13:48,420

they're really uh they really got us

4058

04:13:52,429 --> 04:13:50,340

here so well to all the partners and to

4059

04:13:54,229 --> 04:13:52,439

all the local rocketry associations that

4060

04:13:55,910 --> 04:13:54,239

help our teams get here we thank you

4061

04:13:57,469 --> 04:13:55,920

University of Florida y'all go get your

4062

04:13:59,510 --> 04:13:57,479

rocket and we look forward to seeing

4063

04:14:03,110 --> 04:13:59,520

seeing how everything went that one more

4064

04:14:03,120 --> 04:14:08,389

so Laura's going to come back in and

4065

04:14:08,399 --> 04:14:14,090

and

4066

04:14:19,070 --> 04:14:17,570

the climate is vastly different slightly

4067

04:14:20,870 --> 04:14:19,080

different from the 80 degree weather

4068

04:14:22,490 --> 04:14:20,880

than that we're experiencing today as

4069

04:14:24,530 --> 04:14:22,500

you can tell it's a little bit warm here

4070

04:14:26,929 --> 04:14:24,540

so I'm really interested to see what

4071

04:14:30,950 --> 04:14:26,939

they hear what they have to say

4072

04:14:31,969 --> 04:14:30,960

so as we get you guys up here

4073

04:14:34,010 --> 04:14:31,979

okay

4074

04:14:35,929 --> 04:14:34,020

wonderful you all just keep on filing it

4075

04:14:38,330 --> 04:14:35,939

will you tell me your name and your role

4076
04:14:41,150 --> 04:14:38,340
with the team looks like University of

4077
04:14:42,590 --> 04:14:41,160
Tennessee Chattanooga who's with Alyssa

4078
04:14:44,750 --> 04:14:42,600
wonderful and I kind of prepped

4079
04:14:47,450 --> 04:14:44,760
everybody a little bit already that you

4080
04:14:49,490 --> 04:14:47,460
are our team from North Dakota so talk

4081
04:14:52,370 --> 04:14:49,500
to me about the

4082
04:14:54,290 --> 04:14:52,380
um uh the climate differences and what

4083
04:14:56,630 --> 04:14:54,300
that sort of presented challenge wise

4084
04:14:58,370 --> 04:14:56,640
and how the tests have been

4085
04:15:00,590 --> 04:14:58,380
um well it's definitely colder in North

4086
04:15:03,650 --> 04:15:00,600
Dakota so we've had a pretty long winter

4087
04:15:05,630 --> 04:15:03,660
with lots of snow and ice and cold so

4088
04:15:07,370 --> 04:15:05,640

that that makes it challenging to find a

4089

04:15:08,929 --> 04:15:07,380

nice day to launch but also even just

4090

04:15:10,250 --> 04:15:08,939

getting to our launch site sometimes the

4091

04:15:13,070 --> 04:15:10,260

roads they're minimum maintenance road

4092

04:15:14,510 --> 04:15:13,080

so we can't even make it to the to the

4093

04:15:16,189 --> 04:15:14,520

spot through our normal road so we have

4094

04:15:18,469 --> 04:15:16,199

to try all different directions just to

4095

04:15:20,150 --> 04:15:18,479

get there get through the snow but it's

4096

04:15:22,729 --> 04:15:20,160

it's been a great year with with the

4097

04:15:25,490 --> 04:15:22,739

rocket and what is uh recovery like when

4098

04:15:28,490 --> 04:15:25,500

you've got you know snow covered grounds

4099

04:15:31,189 --> 04:15:28,500

we usually send out about three brave

4100

04:15:33,349 --> 04:15:31,199

souls who climb through the the pretty

4101
04:15:35,929 --> 04:15:33,359
deep snow and get our rocket sometimes

4102
04:15:37,910 --> 04:15:35,939
they have to go a bit of a ways so

4103
04:15:39,590 --> 04:15:37,920
you've already launched obviously we can

4104
04:15:40,849 --> 04:15:39,600
see the rocket behind you how do you

4105
04:15:42,410 --> 04:15:40,859
think it went

4106
04:15:43,849 --> 04:15:42,420
um and how do you think it compares to

4107
04:15:45,110 --> 04:15:43,859
you know other Rockets are there any

4108
04:15:46,429 --> 04:15:45,120
others you're really impressed with

4109
04:15:48,469 --> 04:15:46,439
today

4110
04:15:50,210 --> 04:15:48,479
um it was a great launch it went um as

4111
04:15:52,130 --> 04:15:50,220
we expected we were really happy with

4112
04:15:53,510 --> 04:15:52,140
with how everything went and it's it's

4113
04:15:55,370 --> 04:15:53,520

just been really cool to see all the

4114

04:15:56,809 --> 04:15:55,380

other teams Rockets as well all the

4115

04:15:58,250 --> 04:15:56,819

designs that they have for this year's

4116

04:16:00,290 --> 04:15:58,260

payload challenge have been super unique

4117

04:16:02,269 --> 04:16:00,300

and really cool to see so it's been a

4118

04:16:03,710 --> 04:16:02,279

lot of fun wonderful anybody younger

4119

04:16:05,929 --> 04:16:03,720

that's watching do you have any advice

4120

04:16:07,490 --> 04:16:05,939

for people looking to get into this sort

4121

04:16:09,469 --> 04:16:07,500

of field

4122

04:16:11,150 --> 04:16:09,479

um I would say definitely go for it if

4123

04:16:13,790 --> 04:16:11,160

you're interested follow your dreams

4124

04:16:15,349 --> 04:16:13,800

it's it's possible with with getting

4125

04:16:17,870 --> 04:16:15,359

involved with a rocketry club if you're

4126
04:16:19,370 --> 04:16:17,880
interested in it and finally my last

4127
04:16:21,290 --> 04:16:19,380
question is is there anybody you'd like

4128
04:16:22,490 --> 04:16:21,300
to thank or give a shout out to while we

4129
04:16:23,990 --> 04:16:22,500
have you on

4130
04:16:26,630 --> 04:16:24,000
um yeah I definitely like to thank our

4131
04:16:28,490 --> 04:16:26,640
our team mentor and all of our team for

4132
04:16:29,929 --> 04:16:28,500
for playing some long nights and putting

4133
04:16:31,610 --> 04:16:29,939
a lot of hard work and then also of

4134
04:16:34,010 --> 04:16:31,620
course our sponsors and the university

4135
04:16:35,630 --> 04:16:34,020
for supporting us wonderful thank you so

4136
04:16:36,830 --> 04:16:35,640
much for your time today and wishing you

4137
04:16:39,530 --> 04:16:36,840
all the best of luck for the rest of the

4138
04:16:41,330 --> 04:16:39,540

competition thank you all right and we

4139

04:16:42,650 --> 04:16:41,340

are going to talk with Lane who's back

4140

04:16:45,349 --> 04:16:42,660

with us now and we're going to hear from

4141

04:16:46,910 --> 04:16:45,359

a few more teams yes awesome so I think

4142

04:16:49,189 --> 04:16:46,920

the next team we have coming up is the

4143

04:16:51,290 --> 04:16:49,199

University of Tennessee Tennessee at

4144

04:16:54,110 --> 04:16:51,300

Chattanooga so I'll let them get over

4145

04:16:58,370 --> 04:16:56,750

hey guys how's it going doing good how

4146

04:17:00,229 --> 04:16:58,380

are you doing so I understand you guys

4147

04:17:02,030 --> 04:17:00,239

launched earlier how'd it go it went

4148

04:17:03,830 --> 04:17:02,040

well uh everything was successful for

4149

04:17:05,990 --> 04:17:03,840

our flight we were able to have a

4150

04:17:08,210 --> 04:17:06,000

successful drug in Maine parachute uh

4151
04:17:10,130 --> 04:17:08,220
deployment and then our payload operated

4152
04:17:12,110 --> 04:17:10,140
just exactly what we expected awesome

4153
04:17:13,610 --> 04:17:12,120
yeah so tell me a little bit about your

4154
04:17:15,170 --> 04:17:13,620
payload so this is a counterweight

4155
04:17:17,870 --> 04:17:15,180
payload system that we have we actually

4156
04:17:20,090 --> 04:17:17,880
have the power system uh as the

4157
04:17:22,189 --> 04:17:20,100
counterweight and it sits on two sets of

4158
04:17:24,170 --> 04:17:22,199
bearings that are able to rotate freely

4159
04:17:26,330 --> 04:17:24,180
and then we have a Servo motor that is

4160
04:17:27,889 --> 04:17:26,340
connected to our PI camera and then the

4161
04:17:30,889 --> 04:17:27,899
camera runs into a microcomputer called

4162
04:17:32,990 --> 04:17:30,899
a Raspberry Pi and then autonomously we

4163
04:17:35,630 --> 04:17:33,000

were able to rotate the camera through

4164

04:17:36,950 --> 04:17:35,640

RF frequency that we have with NASA's

4165

04:17:38,450 --> 04:17:36,960

Ground Control and then from there we're

4166

04:17:40,969 --> 04:17:38,460

able to take pictures change the filters

4167

04:17:42,349 --> 04:17:40,979

flip the camera upside down and just do

4168

04:17:43,610 --> 04:17:42,359

a bunch of other things that NASA

4169

04:17:45,290 --> 04:17:43,620

required us to do for these objectives

4170

04:17:47,510 --> 04:17:45,300

but yeah it came out great the clear

4171

04:17:50,150 --> 04:17:47,520

acrylic case showed clear pictures and

4172

04:17:51,830 --> 04:17:50,160

went well awesome so did you guys face

4173

04:17:54,830 --> 04:17:51,840

any challenges or difficulties this year

4174

04:17:59,090 --> 04:17:57,050

um for the majority of us we are all uh

4175

04:18:00,590 --> 04:17:59,100

first timers doing this so the team has

4176
04:18:03,710 --> 04:18:00,600
been around for a while but everybody

4177
04:18:05,150 --> 04:18:03,720
here is brand new to the game so uh it's

4178
04:18:06,769 --> 04:18:05,160
it was definitely a huge learning curve

4179
04:18:08,450 --> 04:18:06,779
for us um we had to go back to some

4180
04:18:09,830 --> 04:18:08,460
classes that we hadn't taken in a while

4181
04:18:11,630 --> 04:18:09,840
and the class that we took last semester

4182
04:18:13,729 --> 04:18:11,640
and and all of it so we had a lot of

4183
04:18:14,630 --> 04:18:13,739
help from uh just previous people that

4184
04:18:16,429 --> 04:18:14,640
were able to kind of get some advice

4185
04:18:18,590 --> 04:18:16,439
from through what they've done before

4186
04:18:20,330 --> 04:18:18,600
and then from there just kind of learned

4187
04:18:22,429 --> 04:18:20,340
and experienced a lot of it was trial

4188
04:18:24,050 --> 04:18:22,439

and error we've had uh some successful

4189

04:18:26,630 --> 04:18:24,060

flights and we've had some pretty crazy

4190

04:18:29,510 --> 04:18:26,640

fails so uh it's been good but through

4191

04:18:30,950 --> 04:18:29,520

the trials and um through the through

4192

04:18:33,290 --> 04:18:30,960

the areas that we've made we've actually

4193

04:18:34,370 --> 04:18:33,300

been able to come out on top and we had

4194

04:18:36,050 --> 04:18:34,380

a really really good flight we're really

4195

04:18:38,330 --> 04:18:36,060

proud that's great to hear so every

4196

04:18:40,790 --> 04:18:38,340

single person is new to the team or okay

4197

04:18:42,830 --> 04:18:40,800

so you had some fresh people on so how

4198

04:18:44,269 --> 04:18:42,840

long has UTC been involved with student

4199

04:18:45,889 --> 04:18:44,279

launch is this your first time or have

4200

04:18:48,410 --> 04:18:45,899

you guys kind of been in the competition

4201

04:18:49,969 --> 04:18:48,420

a while yeah since 2019 we've had there

4202

04:18:52,010 --> 04:18:49,979

so it's it's been a good while for us

4203

04:18:53,030 --> 04:18:52,020

and a lot of these guys now they're

4204

04:18:54,590 --> 04:18:53,040

they're actually out working in

4205

04:18:55,370 --> 04:18:54,600

aerospace companies so it's cool that

4206

04:18:57,349 --> 04:18:55,380

they actually get to have that Real

4207

04:18:58,910 --> 04:18:57,359

World experience and not only are we

4208

04:19:00,290 --> 04:18:58,920

getting stuff from usli previous

4209

04:19:02,210 --> 04:19:00,300

experience but we also have people who

4210

04:19:03,889 --> 04:19:02,220

are actually in Aerospace that's really

4211

04:19:06,229 --> 04:19:03,899

able to help us out so that's super

4212

04:19:07,969 --> 04:19:06,239

helpful yeah fantastic so you guys do

4213

04:19:10,490 --> 04:19:07,979

you have a name for your rocket or is it

4214

04:19:12,650 --> 04:19:10,500

just g2c's rocket it's it's called sick

4215

04:19:15,050 --> 04:19:12,660

parvis Magna it's a Latin for greatness

4216

04:19:17,030 --> 04:19:15,060

comes from Small Beginnings and for us

4217

04:19:18,590 --> 04:19:17,040

you know all starting out and not really

4218

04:19:20,269 --> 04:19:18,600

having any rocketry experience before

4219

04:19:22,250 --> 04:19:20,279

this we thought it was a pretty

4220

04:19:24,590 --> 04:19:22,260

appropriate name to to go with that so

4221

04:19:26,929 --> 04:19:24,600

absolutely is there anybody you want to

4222

04:19:28,189 --> 04:19:26,939

thank or shout out back home absolutely

4223

04:19:29,990 --> 04:19:28,199

we want to thank our friends and family

4224

04:19:31,729 --> 04:19:30,000

first off for having the patience of

4225

04:19:33,050 --> 04:19:31,739

letting us pull off these all-nighters

4226

04:19:34,790 --> 04:19:33,060

and you know all the time that we've

4227

04:19:37,070 --> 04:19:34,800

taken them from that we want to thank

4228

04:19:39,590 --> 04:19:37,080

our faculty advisor and team Mentor Dr

4229

04:19:40,969 --> 04:19:39,600

Elliott he's been a huge help for us and

4230

04:19:42,950 --> 04:19:40,979

with his extensive experience and his

4231

04:19:45,469 --> 04:19:42,960

knowledge he's he's come in clutch for

4232

04:19:47,330 --> 04:19:45,479

us on a lot of things also Tommy sluss

4233

04:19:48,710 --> 04:19:47,340

he is uh he's been helpful for us as

4234

04:19:50,389 --> 04:19:48,720

well and with his previous experience

4235

04:19:52,790 --> 04:19:50,399

with usli he's really coming and

4236

04:19:54,590 --> 04:19:52,800

invested a lot of time for us as well

4237

04:19:56,389 --> 04:19:54,600

if you could offer advice to anyone

4238

04:19:57,710 --> 04:19:56,399

who's like new to student launch or a

4239

04:19:59,710 --> 04:19:57,720

team what would you say

4240

04:20:02,630 --> 04:19:59,720

be prepared to not sleep

4241

04:20:04,729 --> 04:20:02,640

have a lot of stamina and also like just

4242

04:20:06,410 --> 04:20:04,739

don't be too hard on yourself this is a

4243

04:20:08,090 --> 04:20:06,420

very big learning process and there's a

4244

04:20:09,710 --> 04:20:08,100

lot of failures that come with it and

4245

04:20:10,969 --> 04:20:09,720

while there is a time crunch and there's

4246

04:20:13,370 --> 04:20:10,979

a lot of things that you have to do and

4247

04:20:14,689 --> 04:20:13,380

a very little short period of time it's

4248

04:20:16,309 --> 04:20:14,699

good to learn and it's good to do that

4249

04:20:18,110 --> 04:20:16,319

and when you have those small goals and

4250

04:20:19,550 --> 04:20:18,120

you set those for yourself you

4251
04:20:21,650 --> 04:20:19,560
eventually accomplish the Big Goal yeah

4252
04:20:23,330 --> 04:20:21,660
so absolutely well thank you so much for

4253
04:20:25,309 --> 04:20:23,340
talking with me today congratulations on

4254
04:20:28,849 --> 04:20:25,319
a successful launch and enjoy the rest

4255
04:20:30,349 --> 04:20:28,859
of the competition thank you guys

4256
04:20:31,729 --> 04:20:30,359
all right and Laura's going to come back

4257
04:20:34,010 --> 04:20:31,739
with us and as he mentioned it doesn't

4258
04:20:35,630 --> 04:20:34,020
matter if a team has been involved for

4259
04:20:37,250 --> 04:20:35,640
years or they're brand new there are

4260
04:20:38,750 --> 04:20:37,260
always new challenges and new things

4261
04:20:40,250 --> 04:20:38,760
that come up

4262
04:20:41,689 --> 04:20:40,260
um team collaboration or whatever

4263
04:20:43,610 --> 04:20:41,699

payload they're working on that year

4264

04:20:45,429 --> 04:20:43,620

they have to overcome a lot of different

4265

04:20:48,650 --> 04:20:45,439

things so it's really cool to hear that

4266

04:20:52,130 --> 04:20:48,660

Lauren who do we have next so we have

4267

04:20:54,950 --> 04:20:52,140

NYU with us and it is their first year

4268

04:20:57,410 --> 04:20:54,960

um uh competing this year we're gonna

4269

04:21:00,229 --> 04:20:57,420

try to get them all in frame here

4270

04:21:01,969 --> 04:21:00,239

um and uh I want to start out

4271

04:21:03,950 --> 04:21:01,979

they were wanting to tell me about some

4272

04:21:04,969 --> 04:21:03,960

mishaps that happened so I kind of want

4273

04:21:07,250 --> 04:21:04,979

to hear a little bit more about those

4274

04:21:08,570 --> 04:21:07,260

because they haven't told me yet yes so

4275

04:21:10,610 --> 04:21:08,580

the first part of the flight went great

4276

04:21:13,729 --> 04:21:10,620

I went straight up we're talking 5 000

4277

04:21:16,309 --> 04:21:13,739

feet we achieved 47.53 uh Dro came out

4278

04:21:19,370 --> 04:21:16,319

of apogee uh as planned uh will happen

4279

04:21:21,349 --> 04:21:19,380

at Maine we ejected the main at 5 50 but

4280

04:21:24,889 --> 04:21:21,359

it inflated right away but the booster

4281

04:21:27,050 --> 04:21:24,899

section actually ran into the uh the

4282

04:21:28,670 --> 04:21:27,060

main parachute got all tangled up

4283

04:21:30,410 --> 04:21:28,680

um and it was probably around like 100

4284

04:21:32,870 --> 04:21:30,420

feet from the ground before it finally

4285

04:21:35,210 --> 04:21:32,880

got entangled and then finally luckily

4286

04:21:38,090 --> 04:21:35,220

it was able to re-inflate and bring the

4287

04:21:39,650 --> 04:21:38,100

rocket down safely that's awesome and uh

4288

04:21:41,450 --> 04:21:39,660

this isn't just your first year you were

4289

04:21:42,830 --> 04:21:41,460

telling me that you not only had to

4290

04:21:44,809 --> 04:21:42,840

learn how to get prepped for this

4291

04:21:46,610 --> 04:21:44,819

challenge but uh that you had to do it

4292

04:21:48,469 --> 04:21:46,620

sort of being your own Mentor so talk to

4293

04:21:50,090 --> 04:21:48,479

me a little bit about that yeah so I

4294

04:21:52,250 --> 04:21:50,100

mean it was a lot of just like just

4295

04:21:53,990 --> 04:21:52,260

going out doing our own research uh just

4296

04:21:55,610 --> 04:21:54,000

attending as many launches as we could

4297

04:21:57,229 --> 04:21:55,620

uh just getting as much launch

4298

04:21:59,030 --> 04:21:57,239

experience as we could so just make sure

4299

04:22:01,790 --> 04:21:59,040

we can come out here and do things do

4300

04:22:05,090 --> 04:22:01,800

things as smoothly as possible

4301
04:22:07,670 --> 04:22:05,100
yeah I mean another thing sorry about

4302
04:22:09,229 --> 04:22:07,680
um the team is uh obviously we have most

4303
04:22:11,510 --> 04:22:09,239
of our team back at home

4304
04:22:13,429 --> 04:22:11,520
um hopefully watching and all the hard

4305
04:22:15,110 --> 04:22:13,439
work honestly comes from them and we

4306
04:22:17,630 --> 04:22:15,120
just try to do our best to lead them so

4307
04:22:19,610 --> 04:22:17,640
we want to say thank you to everyone

4308
04:22:21,110 --> 04:22:19,620
anything that you're most proud of for

4309
04:22:23,330 --> 04:22:21,120
your rocket anything unique about your

4310
04:22:25,490 --> 04:22:23,340
rocket

4311
04:22:26,689 --> 04:22:25,500
I really like the paint job you know we

4312
04:22:27,710 --> 04:22:26,699
have a guy back home we did a real good

4313
04:22:30,110 --> 04:22:27,720

job

4314

04:22:32,450 --> 04:22:30,120

um I'm liking I'm liking the fins uh

4315

04:22:33,830 --> 04:22:32,460

this guy over here I mean him I did a

4316

04:22:35,030 --> 04:22:33,840

lot of work with the Finns uh getting

4317

04:22:36,710 --> 04:22:35,040

all that fiberglass on so I'm really

4318

04:22:40,670 --> 04:22:36,720

proud with that I really did a great job

4319

04:22:43,910 --> 04:22:40,680

with that talk to me about this uh

4320

04:22:45,889 --> 04:22:43,920

uh yeah so it's the Lunar New Year so we

4321

04:22:47,750 --> 04:22:45,899

chose the rabbit so it's going to be a

4322

04:22:50,929 --> 04:22:47,760

very auspicious launch as it was every

4323

04:22:53,150 --> 04:22:50,939

time that we had the sticker on so

4324

04:22:55,429 --> 04:22:53,160

okay wonderful and y'all are super

4325

04:22:56,990 --> 04:22:55,439

excited for how it performs so anything

4326
04:22:59,929 --> 04:22:57,000
else you want to add thank anybody or

4327
04:23:03,590 --> 04:23:02,630
yeah

4328
04:23:05,330 --> 04:23:03,600
um you just want to thank the team

4329
04:23:07,309 --> 04:23:05,340
everyone at home uh we can only bring

4330
04:23:08,870 --> 04:23:07,319
nine people here as you said before but

4331
04:23:10,670 --> 04:23:08,880
um a lot of hard work and time really

4332
04:23:11,929 --> 04:23:10,680
went into this so everyone back at home

4333
04:23:14,689 --> 04:23:11,939
we really appreciate everything they put

4334
04:23:16,670 --> 04:23:14,699
into it so I think that's all I have to

4335
04:23:19,130 --> 04:23:16,680
say yeah okay wonderful thank you all

4336
04:23:20,630 --> 04:23:19,140
for traveling here and for being here

4337
04:23:21,530 --> 04:23:20,640
today thank you so much wishing you the

4338
04:23:23,870 --> 04:23:21,540

best of luck in the rest of the

4339

04:23:26,630 --> 04:23:23,880

competition we're gonna check back in

4340

04:23:29,450 --> 04:23:26,640

with Lane and see what is going on with

4341

04:23:31,969 --> 04:23:29,460

the uh student launch yes okay so we

4342

04:23:32,929 --> 04:23:31,979

have another Universe joining us so

4343

04:23:35,389 --> 04:23:32,939

they're gonna

4344

04:23:36,530 --> 04:23:35,399

hey how's it going hey pretty well um

4345

04:23:38,689 --> 04:23:36,540

tell us your name and what school you're

4346

04:23:40,189 --> 04:23:38,699

from absolutely so I'm Sam Betts I am

4347

04:23:42,349 --> 04:23:40,199

from Rose-Hulman Institute of Technology

4348

04:23:44,929 --> 04:23:42,359

and I am a mechanical engineering

4349

04:23:46,370 --> 04:23:44,939

student okay awesome so tell us

4350

04:23:48,530 --> 04:23:46,380

um what's your experience today how's it

4351
04:23:50,750 --> 04:23:48,540
going absolutely so we came from Indiana

4352
04:23:52,130 --> 04:23:50,760
and we're not actually launching today

4353
04:23:53,929 --> 04:23:52,140
um it turned out that something last

4354
04:23:55,610 --> 04:23:53,939
minute went wrong for us at the critical

4355
04:23:57,050 --> 04:23:55,620
path and we didn't end up getting to

4356
04:23:58,550 --> 04:23:57,060
launch but we came anyway because we

4357
04:23:59,870 --> 04:23:58,560
wanted to learn from all the teams this

4358
04:24:01,610 --> 04:23:59,880
will be our first time at competition

4359
04:24:03,170 --> 04:24:01,620
being able to talk to the different

4360
04:24:04,130 --> 04:24:03,180
teams talk about their successes and our

4361
04:24:05,630 --> 04:24:04,140
failures

4362
04:24:07,429 --> 04:24:05,640
um and it's been fantastic and we're

4363
04:24:09,229 --> 04:24:07,439

really excited to come back next year so

4364

04:24:10,790 --> 04:24:09,239

much stronger yeah absolutely that's

4365

04:24:12,530 --> 04:24:10,800

amazing so from my understanding you

4366

04:24:14,570 --> 04:24:12,540

guys are somewhat of a new team maybe a

4367

04:24:16,490 --> 04:24:14,580

new organization on campus so tell me

4368

04:24:18,410 --> 04:24:16,500

what's been the journey with starting a

4369

04:24:20,210 --> 04:24:18,420

rocketry at rosehoven absolutely so

4370

04:24:22,250 --> 04:24:20,220

three years ago we started with the usli

4371

04:24:23,809 --> 04:24:22,260

team of around three people uh we didn't

4372

04:24:25,490 --> 04:24:23,819

get very far but the following year we

4373

04:24:27,110 --> 04:24:25,500

grew it to around six or seven we got a

4374

04:24:29,030 --> 04:24:27,120

lot farther and now they say you can see

4375

04:24:30,950 --> 04:24:29,040

all my team members here with me um and

4376

04:24:32,389 --> 04:24:30,960

we got you know this close so it's

4377

04:24:33,530 --> 04:24:32,399

really fantastic to see that slow

4378

04:24:34,790 --> 04:24:33,540

progression

4379

04:24:36,170 --> 04:24:34,800

um and eventually you know we will we

4380

04:24:38,090 --> 04:24:36,180

will get there and we will be successful

4381

04:24:40,070 --> 04:24:38,100

yes absolutely perseverance is

4382

04:24:41,330 --> 04:24:40,080

everything in a rocketry right so tell

4383

04:24:43,429 --> 04:24:41,340

me a little bit about your rocket and

4384

04:24:44,990 --> 04:24:43,439

maybe your payload yeah absolutely so

4385

04:24:47,510 --> 04:24:45,000

because we're a University team we have

4386

04:24:49,070 --> 04:24:47,520

the standard SLI payload uh the way we

4387

04:24:50,630 --> 04:24:49,080

decided to solve it was using these 3D

4388

04:24:51,830 --> 04:24:50,640

printed bearings which are really cool

4389

04:24:53,510 --> 04:24:51,840

because then you could be able to

4390

04:24:54,830 --> 04:24:53,520

iterate really really quickly so we had

4391

04:24:56,450 --> 04:24:54,840

a problem and we you know iterated

4392

04:24:57,769 --> 04:24:56,460

quickly and was able to make those

4393

04:24:59,809 --> 04:24:57,779

bearings stronger and stronger and

4394

04:25:01,070 --> 04:24:59,819

stronger in addition our payload system

4395

04:25:02,750 --> 04:25:01,080

is really cool because it's really

4396

04:25:04,309 --> 04:25:02,760

flexible we can actually use it from

4397

04:25:06,229 --> 04:25:04,319

year to year because our payload team

4398

04:25:09,290 --> 04:25:06,239

did a fantastic job designing their own

4399

04:25:11,030 --> 04:25:09,300

PCB and really really custom software to

4400

04:25:13,130 --> 04:25:11,040

be able to extend that to multiple years

4401

04:25:14,929 --> 04:25:13,140

yeah absolutely it's so cool to keep

4402

04:25:16,490 --> 04:25:14,939

hearing about 3D printing because as you

4403

04:25:17,870 --> 04:25:16,500

said you can easily recreate if you need

4404

04:25:19,910 --> 04:25:17,880

to or fix something or make a new one

4405

04:25:22,309 --> 04:25:19,920

absolutely so

4406

04:25:24,229 --> 04:25:22,319

um what else what else did you guys face

4407

04:25:25,910 --> 04:25:24,239

this year besides just starting the team

4408

04:25:28,070 --> 04:25:25,920

up and was that pretty much the main

4409

04:25:29,929 --> 04:25:28,080

challenge yeah but besides that um

4410

04:25:32,090 --> 04:25:29,939

because we are such a new team we had to

4411

04:25:33,650 --> 04:25:32,100

start with a lot of new people we don't

4412

04:25:35,809 --> 04:25:33,660

have a lot of the experience it's just

4413

04:25:37,250 --> 04:25:35,819

because we are more new so actually over

4414

04:25:38,630 --> 04:25:37,260

half of the people you see here are

4415

04:25:40,010 --> 04:25:38,640

freshmen which is really fantastic

4416

04:25:42,170 --> 04:25:40,020

because they've really took up the reins

4417

04:25:43,550 --> 04:25:42,180

and led this team uh to where it is and

4418

04:25:45,110 --> 04:25:43,560

we wouldn't be here without them so it's

4419

04:25:47,269 --> 04:25:45,120

really exciting to be able to create

4420

04:25:49,370 --> 04:25:47,279

this team for them and in going forward

4421

04:25:50,990 --> 04:25:49,380

then be able to take the reins and be

4422

04:25:53,030 --> 04:25:51,000

even more successful yeah it's awesome

4423

04:25:54,590 --> 04:25:53,040

I'm sure your future is very bright so

4424

04:25:55,729 --> 04:25:54,600

what advice would you have for a new

4425

04:25:58,010 --> 04:25:55,739

team

4426
04:25:59,750 --> 04:25:58,020
the advice that I would give is that you

4427
04:26:01,309 --> 04:25:59,760
can be the best engineer in the world

4428
04:26:02,809 --> 04:26:01,319
you know have the best math skills the

4429
04:26:04,309 --> 04:26:02,819
best CAD skills whatever but if you

4430
04:26:05,809 --> 04:26:04,319
don't have the communication skills and

4431
04:26:07,429 --> 04:26:05,819
you don't have the organizational skills

4432
04:26:09,530 --> 04:26:07,439
and you don't have the teamwork to be

4433
04:26:11,030 --> 04:26:09,540
able to implement this kind of magnitude

4434
04:26:12,649 --> 04:26:11,040
project then you're not going to be

4435
04:26:13,969 --> 04:26:12,659
successful and that is something that

4436
04:26:15,710 --> 04:26:13,979
we've learned the last couple of years

4437
04:26:17,630 --> 04:26:15,720
and we're really going to be focusing on

4438
04:26:19,969 --> 04:26:17,640

organization and project management and

4439

04:26:21,889 --> 04:26:19,979

how to get our technical skills on a

4440

04:26:23,090 --> 04:26:21,899

functioning rocket yeah absolutely so is

4441

04:26:24,950 --> 04:26:23,100

there anyone you want to shout out or

4442

04:26:26,450 --> 04:26:24,960

think today absolutely besides my

4443

04:26:28,550 --> 04:26:26,460

fantastic team

4444

04:26:29,750 --> 04:26:28,560

um here and not here of course I would

4445

04:26:31,309 --> 04:26:29,760

also like to thank our advisor Dr

4446

04:26:33,290 --> 04:26:31,319

Kirkpatrick who's been there every step

4447

04:26:35,630 --> 04:26:33,300

of the way as well as her husband who's

4448

04:26:37,189 --> 04:26:35,640

also been there every step of the way as

4449

04:26:38,870 --> 04:26:37,199

well as the people back at Rose Holman

4450

04:26:41,450 --> 04:26:38,880

including the leaders of the Bic and the

4451
04:26:42,769 --> 04:26:41,460
kick Lee and Tom as well as Roger from

4452
04:26:45,170 --> 04:26:42,779
the physics department who we wouldn't

4453
04:26:47,689 --> 04:26:45,180
have fins without so all of these people

4454
04:26:49,429 --> 04:26:47,699
and then of course SGA for giving us a

4455
04:26:50,630 --> 04:26:49,439
lot of our money as well awesome well

4456
04:26:52,250 --> 04:26:50,640
thank you so much for talking with me

4457
04:26:53,689 --> 04:26:52,260
thanks for being here today I'm so glad

4458
04:26:55,309 --> 04:26:53,699
you guys could still make it and witness

4459
04:26:57,590 --> 04:26:55,319
this amazing event awesome thank you so

4460
04:26:59,269 --> 04:26:57,600
yeah have a great rest of your day guys

4461
04:27:01,429 --> 04:26:59,279
all right and we're gonna bring it back

4462
04:27:03,530 --> 04:27:01,439
over with Lauren see who we have next

4463
04:27:05,030 --> 04:27:03,540

yeah we're actually going here from one

4464

04:27:08,030 --> 04:27:05,040

of the youngest teams at this

4465

04:27:10,809 --> 04:27:08,040

competition uh they have come to us from

4466

04:27:13,130 --> 04:27:10,819

South Carolina from Charleston I believe

4467

04:27:15,290 --> 04:27:13,140

Charlottesville there we go um please

4468

04:27:17,269 --> 04:27:15,300

tell me your name and what your role is

4469

04:27:19,910 --> 04:27:17,279

on the team hi I'm Alex Brown I'm the

4470

04:27:21,950 --> 04:27:19,920

team lead I'm Jake cap and I was the

4471

04:27:23,750 --> 04:27:21,960

payload leads okay and talk to me about

4472

04:27:25,490 --> 04:27:23,760

being one of the youngest teams here

4473

04:27:27,950 --> 04:27:25,500

just sort of how you got to this

4474

04:27:30,050 --> 04:27:27,960

position and uh how you're working with

4475

04:27:32,389 --> 04:27:30,060

your mentors to just you know learn what

4476

04:27:33,950 --> 04:27:32,399

it takes yeah so it's a really great uh

4477

04:27:37,070 --> 04:27:33,960

experience especially for the Boy Scouts

4478

04:27:38,750 --> 04:27:37,080

so our age range is from 12 to 17. uh

4479

04:27:40,910 --> 04:27:38,760

we've been I've been doing this since I

4480

04:27:42,710 --> 04:27:40,920

was 12 every year it's a tradition with

4481

04:27:44,809 --> 04:27:42,720

our boy scouts and it's it's a really

4482

04:27:46,910 --> 04:27:44,819

great experience because the younger the

4483

04:27:48,410 --> 04:27:46,920

younger students get to look up to the

4484

04:27:49,550 --> 04:27:48,420

older ones as you know they've

4485

04:27:51,530 --> 04:27:49,560

progressed throughout the years of them

4486

04:27:53,450 --> 04:27:51,540

doing this program and get her get to

4487

04:27:54,950 --> 04:27:53,460

interact with the mentors you know I've

4488

04:27:55,849 --> 04:27:54,960

been doing this for years so it's a

4489

04:27:57,950 --> 04:27:55,859

really great experience and it really

4490

04:28:01,189 --> 04:27:57,960

gets the kids into

4491

04:28:02,389 --> 04:28:01,199

oh stem and rocketry early on like I

4492

04:28:05,570 --> 04:28:02,399

said I've been doing this since I was 12

4493

04:28:07,729 --> 04:28:05,580

because of that so is this one of uh

4494

04:28:09,710 --> 04:28:07,739

one of the main draws of people why they

4495

04:28:12,530 --> 04:28:09,720

would join your troop I mean this is a

4496

04:28:14,870 --> 04:28:12,540

really big deal so yes so this is

4497

04:28:17,330 --> 04:28:14,880

definitely one of our biggest things in

4498

04:28:19,550 --> 04:28:17,340

our troop no other troop in America

4499

04:28:22,729 --> 04:28:19,560

um does this competition uh this year

4500

04:28:25,370 --> 04:28:22,739

and it's a really big Outreach

4501
04:28:26,750 --> 04:28:25,380
opportunity for our troop however we are

4502
04:28:29,450 --> 04:28:26,760
still a normal Boy Scout Troop other

4503
04:28:31,729 --> 04:28:29,460
than this we meet uh separately and just

4504
04:28:34,729 --> 04:28:31,739
invite everyone in involved in our boy

4505
04:28:37,610 --> 04:28:34,739
scout troop and some uh others to join

4506
04:28:39,830 --> 04:28:37,620
sure now talk to me about any uh

4507
04:28:42,590 --> 04:28:39,840
challenges that you've had to overcome

4508
04:28:45,769 --> 04:28:42,600
uh over the course of your testing and

4509
04:28:48,110 --> 04:28:45,779
then up until today yeah so um obviously

4510
04:28:49,550 --> 04:28:48,120
because we're such a young such because

4511
04:28:51,590 --> 04:28:49,560
we're such a young team we're fairly

4512
04:28:52,969 --> 04:28:51,600
inexperienced and there's a lot of

4513
04:28:54,710 --> 04:28:52,979

things we've had to learn throughout it

4514

04:28:57,469 --> 04:28:54,720

so the payload we designed our own

4515

04:28:59,030 --> 04:28:57,479

custom boards that was a huge uh step

4516

04:29:01,370 --> 04:28:59,040

for us we obviously had to program

4517

04:29:03,950 --> 04:29:01,380

everything with most of our students not

4518

04:29:06,110 --> 04:29:03,960

having any programming experience at all

4519

04:29:07,670 --> 04:29:06,120

and overall we all go to different

4520

04:29:09,290 --> 04:29:07,680

schools so our timing is way different

4521

04:29:11,229 --> 04:29:09,300

everything we're on breaks different

4522

04:29:13,550 --> 04:29:11,239

times three day weekends different times

4523

04:29:16,309 --> 04:29:13,560

schedules our way off so just aligning

4524

04:29:17,870 --> 04:29:16,319

everything to get launch days and uh

4525

04:29:20,269 --> 04:29:17,880

meeting days that work for everyone was

4526

04:29:22,670 --> 04:29:20,279

was a huge Challenge and you know it no

4527

04:29:24,050 --> 04:29:22,680

matter how what way it went we feel like

4528

04:29:26,090 --> 04:29:24,060

we did a really great job we're super

4529

04:29:27,110 --> 04:29:26,100

proud of how it turned out and how did

4530

04:29:29,030 --> 04:29:27,120

it go today I know you've already

4531

04:29:31,610 --> 04:29:29,040

launched so how do you how how did it go

4532

04:29:34,070 --> 04:29:31,620

yes so it went it went fairly well our

4533

04:29:36,889 --> 04:29:34,080

our rocket launch was extremely

4534

04:29:39,710 --> 04:29:36,899

successful it went exactly it was

4535

04:29:41,030 --> 04:29:39,720

perfectly safe came down just feet away

4536

04:29:43,550 --> 04:29:41,040

from the pads I think we were one of the

4537

04:29:45,050 --> 04:29:43,560

closest teams uh unfortunately because

4538

04:29:47,750 --> 04:29:45,060

of some

4539

04:29:49,550 --> 04:29:47,760

um punchless items that NASA had and

4540

04:29:52,130 --> 04:29:49,560

some of the last wait uh last minute

4541

04:29:53,929 --> 04:29:52,140

wait additions we went a decent bit

4542

04:29:56,149 --> 04:29:53,939

lower than our projected altitude which

4543

04:29:57,950 --> 04:29:56,159

we were upset about but other than that

4544

04:30:00,290 --> 04:29:57,960

we were really really happy with how

4545

04:30:01,910 --> 04:30:00,300

today turned out wonderful and anybody

4546

04:30:02,929 --> 04:30:01,920

you want to thank or give a shout out to

4547

04:30:04,969 --> 04:30:02,939

you back home

4548

04:30:06,170 --> 04:30:04,979

absolutely so we have well first of all

4549

04:30:07,670 --> 04:30:06,180

obviously we'd like to give a shout out

4550

04:30:09,110 --> 04:30:07,680

to all of our adult leaders and adult

4551
04:30:11,269 --> 04:30:09,120
mentors

4552
04:30:14,990 --> 04:30:11,279
um and you know especially Tim Hoagland

4553
04:30:16,550 --> 04:30:15,000
William Brown uh and then we have a not

4554
04:30:18,290 --> 04:30:16,560
a mentor but he's just been someone who

4555
04:30:20,929 --> 04:30:18,300
we've been able to consult with use his

4556
04:30:22,130 --> 04:30:20,939
lab uh his name is Alden and he's he's

4557
04:30:23,570 --> 04:30:22,140
been really great for us I would

4558
04:30:26,269 --> 04:30:23,580
definitely like to give a huge shout out

4559
04:30:28,010 --> 04:30:26,279
to him wonderful and finally uh you know

4560
04:30:29,389 --> 04:30:28,020
the younger generation you are already

4561
04:30:31,849 --> 04:30:29,399
the youngest in the league but even

4562
04:30:33,290 --> 04:30:31,859
younger looking and wanting to get

4563
04:30:34,550 --> 04:30:33,300

involved with this what sort of advice

4564

04:30:36,950 --> 04:30:34,560

would you give them when they're

4565

04:30:39,469 --> 04:30:36,960

thinking oh that looks really hard

4566

04:30:42,410 --> 04:30:39,479

well what I would tell them is uh you

4567

04:30:43,729 --> 04:30:42,420

know it is rocket science it is hard but

4568

04:30:45,950 --> 04:30:43,739

you know you have a lot of people to

4569

04:30:48,229 --> 04:30:45,960

look up to your your mentors everybody

4570

04:30:49,729 --> 04:30:48,239

else so you're you know you can do it

4571

04:30:51,110 --> 04:30:49,739

you're going to figure it out there's

4572

04:30:52,969 --> 04:30:51,120

lots of different roles you can take on

4573

04:30:54,649 --> 04:30:52,979

just you know take it in little pieces

4574

04:30:57,110 --> 04:30:54,659

and eventually you understand it and

4575

04:30:59,030 --> 04:30:57,120

once you have started on this rocketry

4576

04:31:00,769 --> 04:30:59,040

stuff it's hard to go back so

4577

04:31:03,710 --> 04:31:00,779

wonderful thank you both so much for

4578

04:31:05,389 --> 04:31:03,720

being here uh congratulations and um

4579

04:31:06,830 --> 04:31:05,399

looking forward to hearing how

4580

04:31:08,689 --> 04:31:06,840

everything turns out thank you so much

4581

04:31:10,790 --> 04:31:08,699

thank you and we're gonna be joined by

4582

04:31:12,710 --> 04:31:10,800

Lane here again and get enough yeah on

4583

04:31:13,910 --> 04:31:12,720

NASA student wants okay so you guys may

4584

04:31:15,710 --> 04:31:13,920

have heard a little bit of commotion

4585

04:31:17,389 --> 04:31:15,720

earlier and I have someone from the team

4586

04:31:18,710 --> 04:31:17,399

so tell me what is all the excitement

4587

04:31:20,269 --> 04:31:18,720

well first of all tell me what school

4588

04:31:21,830 --> 04:31:20,279

you're from so I'm from Spring Grove

4589

04:31:24,170 --> 04:31:21,840

Area High School we're up in South

4590

04:31:25,910 --> 04:31:24,180

Central PA okay and what's your name my

4591

04:31:28,610 --> 04:31:25,920

name is Alex fiorillo okay so tell us

4592

04:31:30,410 --> 04:31:28,620

what's all the excitement about uh well

4593

04:31:32,450 --> 04:31:30,420

since we're at high school we really

4594

04:31:33,590 --> 04:31:32,460

only go for the altitude award since

4595

04:31:36,110 --> 04:31:33,600

that's one of the only few Awards we're

4596

04:31:37,490 --> 04:31:36,120

eligible for and we just looked at it

4597

04:31:40,189 --> 04:31:37,500

right here at the RSO and we were

4598

04:31:42,110 --> 04:31:40,199

exactly 4 500 on the dot well wow that

4599

04:31:44,030 --> 04:31:42,120

is so incredible for so for for those

4600

04:31:46,010 --> 04:31:44,040

who are not familiar we have

4601
04:31:47,450 --> 04:31:46,020
um the teams have to declare an out

4602
04:31:49,309 --> 04:31:47,460
months in advance before the final

4603
04:31:51,110 --> 04:31:49,319
launch and have to tell everybody where

4604
04:31:52,849 --> 04:31:51,120
they're how high their Rocket's Gonna

4605
04:31:54,889 --> 04:31:52,859
Fly so this team did something very

4606
04:31:57,170 --> 04:31:54,899
incredible so tell me how's the team

4607
04:31:59,689 --> 04:31:57,180
feeling uh well we're pretty stoked

4608
04:32:01,969 --> 04:31:59,699
we're pretty happy about it um after all

4609
04:32:03,769 --> 04:32:01,979
that we were the first rocket to fly

4610
04:32:05,990 --> 04:32:03,779
after all those delays the rocket right

4611
04:32:07,610 --> 04:32:06,000
next to us went and then it was a long

4612
04:32:08,870 --> 04:32:07,620
time for us so there's lots of lots of

4613
04:32:10,790 --> 04:32:08,880

tension lots of nerves and then

4614

04:32:12,710 --> 04:32:10,800

everything comes to a head here and so

4615

04:32:14,809 --> 04:32:12,720

it's nice to finally breathe and then

4616

04:32:16,490 --> 04:32:14,819

say you know we did it yeah absolutely

4617

04:32:18,889 --> 04:32:16,500

did you guys face any challenges or

4618

04:32:20,450 --> 04:32:18,899

difficulties this year absolutely um the

4619

04:32:22,550 --> 04:32:20,460

payload especially presented a lot of

4620

04:32:25,250 --> 04:32:22,560

difficulties it was something that we

4621

04:32:28,130 --> 04:32:25,260

hadn't done anything like it before

4622

04:32:30,769 --> 04:32:28,140

um radio communication and

4623

04:32:32,450 --> 04:32:30,779

um lots of different new devices new

4624

04:32:35,929 --> 04:32:32,460

programming and and that sort of things

4625

04:32:39,110 --> 04:32:35,939

we have to learn as we go and

4626
04:32:41,689 --> 04:32:39,120
um improve and and all of that so it was

4627
04:32:43,969 --> 04:32:41,699
a lot of learning and working together

4628
04:32:45,649 --> 04:32:43,979
and going into new fields that our team

4629
04:32:47,090 --> 04:32:45,659
hadn't gotten into before so that was

4630
04:32:48,469 --> 04:32:47,100
probably one of our biggest challenges

4631
04:32:50,090 --> 04:32:48,479
yeah yeah so yes tell me a little bit

4632
04:32:52,969 --> 04:32:50,100
more about your payload what exactly did

4633
04:32:54,889 --> 04:32:52,979
it do uh so the goal of our payload is

4634
04:32:56,450 --> 04:32:54,899
to find the altitude velocity and

4635
04:32:58,849 --> 04:32:56,460
acceleration of the rocket using a

4636
04:33:00,769 --> 04:32:58,859
system called trilateration where we use

4637
04:33:03,050 --> 04:33:00,779
radio communication to pretty much

4638
04:33:05,209 --> 04:33:03,060

estimate the distance from a transmitter

4639

04:33:06,830 --> 04:33:05,219

on the rocket to a series of three

4640

04:33:08,990 --> 04:33:06,840

ground stations we have back in our prep

4641

04:33:11,269 --> 04:33:09,000

area and then once we have those three

4642

04:33:13,310 --> 04:33:11,279

distances through a lot of funky

4643

04:33:15,289 --> 04:33:13,320

geometry and and all that we can pretty

4644

04:33:18,769 --> 04:33:15,299

much find the coordinates of the rocket

4645

04:33:20,449 --> 04:33:18,779

in a 3D space and then you know we take

4646

04:33:21,890 --> 04:33:20,459

that find the altitude and altitude over

4647

04:33:23,510 --> 04:33:21,900

time velocity velocity over time

4648

04:33:25,670 --> 04:33:23,520

acceleration awesome

4649

04:33:26,990 --> 04:33:25,680

did you guys have a special name Ock it

4650

04:33:29,631 --> 04:33:27,000

or payload or anything

4651
04:33:32,209 --> 04:33:29,641
uh yeah so our Rocket's called Hyperion

4652
04:33:33,730 --> 04:33:32,219
um yeah okay well I did great today

4653
04:33:35,929 --> 04:33:33,740
thank you so much for talking with me

4654
04:33:37,310 --> 04:33:35,939
congratulations on meeting your altitude

4655
04:33:38,631 --> 04:33:37,320
goals and enjoy the rest of the

4656
04:33:40,970 --> 04:33:38,641
competition absolutely thank you very

4657
04:33:43,609 --> 04:33:40,980
much thank you and with that that

4658
04:33:44,750 --> 04:33:43,619
concludes our second volley

4659
04:33:46,551 --> 04:33:44,760
um we're going to take a quick break

4660
04:33:48,349 --> 04:33:46,561
show you just a live overview of the

4661
04:59:17,708 --> 04:33:48,359
entire field here but we'll be back

4662
04:59:21,948 --> 04:59:20,090
the North Carolina State University

4663
04:59:23,868 --> 04:59:21,958

Raleigh team we don't have your flight

4664

04:59:27,948 --> 04:59:23,878

card so please bring your flight card up

4665

04:59:45,288 --> 04:59:30,350

we see your rocket on the pad but we do

4666

04:59:49,190 --> 04:59:47,750

it's North Carolina State University in

4667

04:59:52,850 --> 04:59:49,200

Raleigh

4668

04:59:57,770 --> 04:59:56,150

the taco lyco team we don't have your

4669

05:00:34,390 --> 04:59:57,780

flight card

4670

05:00:34,400 --> 05:01:46,628

thank you

4671

05:01:46,638 --> 05:01:58,120

three two one

4672

05:02:04,930 --> 05:01:59,990

[Applause]

4673

05:02:10,250 --> 05:02:08,090

student launch competition one of NASA's

4674

05:02:12,708 --> 05:02:10,260

Artemis student challenges for our

4675

05:02:15,350 --> 05:02:12,718

student teams it actually is rocket

4676

05:02:17,390 --> 05:02:15,360

science NASA student launch is an annual

4677

05:02:19,368 --> 05:02:17,400

engineering competition designed to

4678

05:02:22,190 --> 05:02:19,378

introduce students to the exciting world

4679

05:02:24,470 --> 05:02:22,200

of high-powered rocketry student launch

4680

05:02:27,050 --> 05:02:24,480

engages students from middle schools to

4681

05:02:29,810 --> 05:02:27,060

universities in a nine-month engineering

4682

05:02:32,090 --> 05:02:29,820

design life cycle program mirroring the

4683

05:02:35,208 --> 05:02:32,100

activities of a space flight program

4684

05:02:37,190 --> 05:02:35,218

teams design build test and launch

4685

05:02:39,830 --> 05:02:37,200

high-powered rockets and scientific

4686

05:02:42,830 --> 05:02:39,840

payloads teams are divided into two

4687

05:02:45,650 --> 05:02:42,840

primary divisions College University or

4688

05:02:49,430 --> 05:02:45,660

usli and middle school high school or

4689

05:02:51,230 --> 05:02:49,440

SLI each year usli teams are tasked with

4690

05:02:53,930 --> 05:02:51,240

completing a unique payload or Mission

4691

05:02:55,788 --> 05:02:53,940

objective SLI teams are permitted to

4692

05:02:57,530 --> 05:02:55,798

develop a science experiment where

4693

05:02:59,868 --> 05:02:57,540

engineering payload appropriate to their

4694

05:03:02,208 --> 05:02:59,878

capabilities and curriculum

4695

05:03:03,890 --> 05:03:02,218

how high do rockets go for our

4696

05:03:07,310 --> 05:03:03,900

competition they'll reach altitudes

4697

05:03:09,350 --> 05:03:07,320

between 3 500 and 6 000 feet instead of

4698

05:03:11,208 --> 05:03:09,360

trying to fly the highest teams try to

4699

05:03:13,190 --> 05:03:11,218

fly the closest to their target altitude

4700

05:03:15,650 --> 05:03:13,200

which they submit during the preliminary

4701
05:03:18,050 --> 05:03:15,660
design review a full six months before

4702
05:03:19,970 --> 05:03:18,060
their competition launch a rigorous and

4703
05:03:21,890 --> 05:03:19,980
competitive proposal selection process

4704
05:03:24,230 --> 05:03:21,900
kicks off this Artemis student challenge

4705
05:03:26,090 --> 05:03:24,240
once selected competing teams must

4706
05:03:28,190 --> 05:03:26,100
complete a series of Milestone reviews

4707
05:03:30,590 --> 05:03:28,200
mirroring the NASA engineering design

4708
05:03:32,690 --> 05:03:30,600
life cycle each review involves

4709
05:03:34,190 --> 05:03:32,700
preparing a technical report detailing

4710
05:03:37,010 --> 05:03:34,200
launch vehicle and payload design

4711
05:03:40,128 --> 05:03:37,020
technical drawings simulation data

4712
05:03:43,070 --> 05:03:40,138
safety and Hazards analysis test data

4713
05:03:45,230 --> 05:03:43,080

timeline and budget estimations and stem

4714

05:03:47,390 --> 05:03:45,240

engagement teams present each Milestone

4715

05:03:49,850 --> 05:03:47,400

via video teleconference to a review

4716

05:03:51,288 --> 05:03:49,860

panel comprised of NASA subject matter

4717

05:03:53,570 --> 05:03:51,298

experts

4718

05:03:55,430 --> 05:03:53,580

to finish out the season in April teams

4719

05:03:57,948 --> 05:03:55,440

compete in a final competition launch

4720

05:04:00,470 --> 05:03:57,958

event hosted in Rocket City Huntsville

4721

05:04:04,190 --> 05:04:00,480

Alabama home of NASA's Marshall space

4722

05:04:06,770 --> 05:04:04,200

flight center for the 2021 and 2022

4723

05:04:08,690 --> 05:04:06,780

competition Seasons teams unable to

4724

05:04:09,890 --> 05:04:08,700

gather or travel effectively are

4725

05:04:12,530 --> 05:04:09,900

permitted to join the new design

4726
05:04:14,628 --> 05:04:12,540
division the design division maintains

4727
05:04:16,368 --> 05:04:14,638
the focus and Technical Excellence of

4728
05:04:18,230 --> 05:04:16,378
the Artemis student challenge programs

4729
05:04:20,448 --> 05:04:18,240
without requiring a rocket to be

4730
05:04:22,368 --> 05:04:20,458
constructed or flown if you would like

4731
05:04:24,708 --> 05:04:22,378
to learn more about NASA student launch

4732
05:04:27,050 --> 05:04:24,718
or other NASA Artemis student challenges

4733
05:04:28,250 --> 05:04:27,060
visit us at our website or on social

4734
05:04:31,448 --> 05:04:28,260
media

4735
05:04:36,650 --> 05:04:34,730
.gov Artemis and see how you can join

4736
05:06:20,030 --> 05:04:36,660
one of NASA's Mission related student

4737
05:06:20,040 --> 05:06:29,960
congratulations

4738
05:06:29,970 --> 05:07:52,670

[Music]

4739

05:07:52,680 --> 05:08:04,500

foreign

4740

05:09:31,970 --> 05:08:59,040

[Music]

4741

05:09:36,970 --> 05:09:33,530

because he has a little else because

4742

05:09:36,980 --> 05:09:44,530

yeah you're good for right now

4743

05:09:44,540 --> 05:09:52,610

I told him yeah

4744

05:09:57,288 --> 05:09:54,470

hey everyone and welcome back to the

4745

05:10:00,170 --> 05:09:57,298

2023 finale of the NASA student launch

4746

05:10:01,730 --> 05:10:00,180

competition our dolly for rockets for

4747

05:10:03,770 --> 05:10:01,740

our third volley are out there on the

4748

05:10:05,390 --> 05:10:03,780

Montrose we are just moments away from

4749

05:10:07,310 --> 05:10:05,400

launching this next group now just for

4750

05:10:09,530 --> 05:10:07,320

as a reminder we've got over 40 teams

4751
05:10:11,270 --> 05:10:09,540
from States all across the United States

4752
05:10:13,430 --> 05:10:11,280
here we've got middle school teams high

4753
05:10:15,708 --> 05:10:13,440
school teams and college teams they are

4754
05:10:17,750 --> 05:10:15,718
ready to fly so now let's send it on

4755
05:10:19,190 --> 05:10:17,760
over to Gerald for commentary for launch

4756
05:10:26,090 --> 05:10:19,200
and thanks for joining us let's see

4757
05:10:30,948 --> 05:10:28,490
all right

4758
05:10:32,690 --> 05:10:30,958
okay we're gonna find some Rockets we

4759
05:10:34,490 --> 05:10:32,700
are at a rocket launch does everyone

4760
05:10:37,128 --> 05:10:34,500
want a piece of Rockets or no

4761
05:10:38,150 --> 05:10:37,138
okay there's a couple people we'll do it

4762
05:10:40,730 --> 05:10:38,160
anyway

4763
05:10:43,368 --> 05:10:40,740

on pad number 10.

4764

05:10:45,490 --> 05:10:43,378

we have Rams and Rockets from Angelo

4765

05:10:52,440 --> 05:10:45,500

State University from San Angelo Texas

4766

05:11:21,350 --> 05:10:57,530

[Music]

4767

05:11:24,110 --> 05:11:22,910

okay we're actually gonna start on the

4768

05:11:26,868 --> 05:11:24,120

20s

4769

05:11:30,170 --> 05:11:26,878

so we're gonna sort of pad 20 and we're

4770

05:11:31,970 --> 05:11:30,180

getting the flight card here right now

4771

05:11:34,910 --> 05:11:31,980

I'm doing a little bit of a lunch box

4772

05:11:37,128 --> 05:11:34,920

issue on 10 11 12.

4773

05:11:40,010 --> 05:11:37,138

oh it's okay don't worry your rocket

4774

05:11:42,288 --> 05:11:40,020

will still fly just wait

4775

05:11:46,310 --> 05:11:42,298

okay we're gonna go to pad number 20.

4776
05:11:51,230 --> 05:11:49,070
okay yeah uh Team Hydra this is math

4777
05:11:52,788 --> 05:11:51,240
Mania robotics at a Mission Viejo

4778
05:11:55,310 --> 05:11:52,798
California

4779
05:11:58,368 --> 05:11:55,320
the name rocket is

4780
05:12:01,670 --> 05:11:58,378
I'm it's Cena and Cena

4781
05:12:03,830 --> 05:12:01,680
okay this is 27 pound rocket

4782
05:12:05,150 --> 05:12:03,840
Orange in diameter seven feet seven

4783
05:12:07,010 --> 05:12:05,160
inches tall

4784
05:12:09,830 --> 05:12:07,020
yeah pathetically I'm not sure how to

4785
05:12:12,948 --> 05:12:09,840
pronounce this I apologize the other

4786
05:12:18,650 --> 05:12:12,958
vehicle notes is the apogee is 5000 feet

4787
05:12:21,890 --> 05:12:18,660
we have split fins because it looks bad

4788
05:12:25,368 --> 05:12:21,900

at sign dollar sign dollar sign

4789

05:12:28,430 --> 05:12:25,378

is a it is green because of the name in

4790

05:12:31,610 --> 05:12:28,440

clina which is hydra's mother I think

4791

05:12:34,190 --> 05:12:31,620

it's a it's uh tie into Greek mythology

4792

05:12:36,470 --> 05:12:34,200

the experimentation information is a

4793

05:12:40,610 --> 05:12:36,480

sled spinner we are doing the university

4794

05:12:43,490 --> 05:12:40,620

challenge an rrc 3 detects Landing then

4795

05:12:46,490 --> 05:12:43,500

our sleds rotate until the camera is

4796

05:12:52,070 --> 05:12:46,500

oriented around a two axis using an IMU

4797

05:12:54,350 --> 05:12:52,080

then the RTL SP or SDR receives and

4798

05:12:57,470 --> 05:12:54,360

decodes the APR commands our Raspberry

4799

05:12:59,628 --> 05:12:57,480

Pi controls the separate motor and

4800

05:13:02,390 --> 05:12:59,638

camera to follow the commands our team

4801
05:13:05,390 --> 05:13:02,400
is nine students in middle and high

4802
05:13:07,850 --> 05:13:05,400
school our team is split between two

4803
05:13:10,670 --> 05:13:07,860
counties and we are two hours apart

4804
05:13:12,708 --> 05:13:10,680
we attend all six different schools most

4805
05:13:15,708 --> 05:13:12,718
of the team flew here but one of our

4806
05:13:17,570 --> 05:13:15,718
team members drove the 32 hours from

4807
05:13:20,330 --> 05:13:17,580
California with our mentors let's give

4808
05:13:24,410 --> 05:13:20,340
them a hand that's quite a Quite a feat

4809
05:13:29,330 --> 05:13:26,750
okay so yeah this is going to be pad

4810
05:13:31,310 --> 05:13:29,340
number 20 the green rocket in front of

4811
05:13:34,010 --> 05:13:31,320
us pad 20.

4812
05:13:37,550 --> 05:13:34,020
we have a clear sky we have a clear

4813
05:13:47,770 --> 05:13:37,560

range we are going to launch pad 20 in

4814

05:13:52,850 --> 05:13:49,850

split fin to get that little bit of

4815

05:13:52,860 --> 05:14:01,010

starting our governor

4816

05:14:01,020 --> 05:14:04,490

there's an event

4817

05:14:11,510 --> 05:14:07,910

go parachutes out

4818

05:14:15,410 --> 05:14:11,520

should have went 5000 feet on the K 1085

4819

05:14:27,170 --> 05:14:15,420

white Thunder I would agree on that one

4820

05:14:32,690 --> 05:14:29,090

okay we're probably about

4821

05:14:40,310 --> 05:14:32,700

1500 feet right now

4822

05:14:47,410 --> 05:14:43,550

okay about 800 feet right now should

4823

05:14:51,590 --> 05:14:49,250

would be good

4824

05:14:54,650 --> 05:14:51,600

now it opens

4825

05:15:15,350 --> 05:14:57,410

all of Southern California was involved

4826
05:15:21,110 --> 05:15:18,230
yeah pad 21 we have Cedar Falls rocket

4827
05:15:22,430 --> 05:15:21,120
club out of Cedar Falls

4828
05:15:25,810 --> 05:15:22,440
Iowa

4829
05:15:29,150 --> 05:15:25,820
Davis rocket is Project

4830
05:15:32,330 --> 05:15:29,160
thrufen or Raven

4831
05:15:34,788 --> 05:15:32,340
spell different uh 26 pounds five inches

4832
05:15:37,610 --> 05:15:34,798
diameter eight feet tall apogee set for

4833
05:15:39,470 --> 05:15:37,620
4 500 feet on a k-1440 white Thunder

4834
05:15:41,448 --> 05:15:39,480
this does have the experiment

4835
05:15:43,670 --> 05:15:41,458
information drone as the autonomous

4836
05:15:45,770 --> 05:15:43,680
drone this stands for Deployable

4837
05:15:47,510 --> 05:15:45,780
rocketry operational navigational

4838
05:15:50,750 --> 05:15:47,520

equipment

4839

05:15:53,810 --> 05:15:50,760

this does guides this this will guide

4840

05:15:57,650 --> 05:15:53,820

students to Landing after flight

4841

05:16:00,288 --> 05:15:57,660

our students will guide it after flight

4842

05:16:02,270 --> 05:16:00,298

and then oh yeah this is the one where I

4843

05:16:04,190 --> 05:16:02,280

think it they the team made their own

4844

05:16:06,708 --> 05:16:04,200

drone for this one so the Drone will fly

4845

05:16:09,650 --> 05:16:06,718

out and fly where it needs to go

4846

05:16:12,350 --> 05:16:09,660

the uh rocket is painted is represented

4847

05:16:15,110 --> 05:16:12,360

I guess the Raven from the Marvel movies

4848

05:16:17,510 --> 05:16:15,120

Odin and Raven and it was painted by a

4849

05:16:19,368 --> 05:16:17,520

local artist the team did let me know to

4850

05:16:22,368 --> 05:16:19,378

make their own drone from scratch was

4851
05:16:25,070 --> 05:16:22,378
quite challenging and the payload drives

4852
05:16:28,670 --> 05:16:25,080
the name of the rocket also is a unique

4853
05:16:31,310 --> 05:16:28,680
story as their team's advisor competed

4854
05:16:39,470 --> 05:16:31,320
in the very first tart competition back

4855
05:16:56,510 --> 05:16:42,948
trying to yeah being on hold for a plane

4856
05:17:03,070 --> 05:16:59,570
okay we're gonna launch project Raven on

4857
05:17:05,448 --> 05:17:03,080
pad number 21 so that's in front of us

4858
05:17:07,490 --> 05:17:05,458
look all the way to the right it is the

4859
05:17:10,190 --> 05:17:07,500
one second from the right

4860
05:17:11,750 --> 05:17:10,200
okay pad 21 we have a clear sky we have

4861
05:17:20,810 --> 05:17:11,760
a clear range we're going to launch in

4862
05:17:20,820 --> 05:17:26,150
good boost on that one

4863
05:17:26,160 --> 05:17:31,070

I straight up boost on that

4864

05:17:31,080 --> 05:17:34,850

arcing over

4865

05:17:34,860 --> 05:17:41,330

there's an event drug parachute is out

4866

05:17:44,930 --> 05:17:42,890

so that one should go about that shirt

4867

05:17:50,330 --> 05:17:44,940

one should have went 4 500 feet with the

4868

05:17:54,948 --> 05:17:52,550

oh

4869

05:18:10,788 --> 05:17:54,958

funny so still can see under under

4870

05:18:10,798 --> 05:18:16,128

still about 1500 feet out

4871

05:18:19,390 --> 05:18:17,930

okay now we're about a thousand feet so

4872

05:18:22,310 --> 05:18:19,400

we should have the main here any moment

4873

05:18:29,810 --> 05:18:22,320

there it is

4874

05:18:33,288 --> 05:18:32,090

so there's supposed to be maybe a drone

4875

05:18:35,390 --> 05:18:33,298

flying out or is that I don't know if

4876

05:18:38,628 --> 05:18:35,400

that's upon Landing

4877

05:18:40,070 --> 05:18:38,638

oh it's on Landing

4878

05:18:43,368 --> 05:18:40,080

so we should be able to see something

4879

05:18:48,590 --> 05:18:43,378

here it's all right in front of us

4880

05:18:53,150 --> 05:18:50,270

I was hoping to see a little drone come

4881

05:18:55,788 --> 05:18:53,160

out maybe not

4882

05:18:57,650 --> 05:18:55,798

it's just gonna stay I guess uh parked

4883

05:19:01,760 --> 05:18:57,660

for the moment okay we're gonna go to

4884

05:19:01,770 --> 05:19:07,730

[Music]

4885

05:19:07,740 --> 05:19:21,470

no no

4886

05:19:29,510 --> 05:19:24,350

okay I'm pad 22 we have East Aurora High

4887

05:19:31,010 --> 05:19:29,520

School in East East Aurora New York

4888

05:19:34,490 --> 05:19:31,020

the name of this or the name of this

4889

05:19:37,430 --> 05:19:34,500

project is Project New Heights 25 pound

4890

05:19:40,310 --> 05:19:37,440

rocket five and a half inch diameter six

4891

05:19:43,270 --> 05:19:40,320

feet one inch tall this is the fifth

4892

05:19:46,368 --> 05:19:43,280

full-scale flight third on this airframe

4893

05:19:50,930 --> 05:19:46,378

on the experiment information it has the

4894

05:19:58,490 --> 05:19:54,530

pronounce neat I 360. it has got near

4895

05:20:02,690 --> 05:19:58,500

infrared atmospheric Imaging system in

4896

05:20:04,070 --> 05:20:02,700

360 Degrees swing at Aerotech k700 White

4897

05:20:06,770 --> 05:20:04,080

Lightning

4898

05:20:09,070 --> 05:20:06,780

and this rocket should go

4899

05:20:11,150 --> 05:20:09,080

don't have a because it's an unknown

4900

05:20:13,368 --> 05:20:11,160

estimated altitude at least for my

4901

05:20:15,890 --> 05:20:13,378

paperwork this one does Carry Three

4902

05:20:18,230 --> 05:20:15,900

GoPro cameras and measures pressure and

4903

05:20:20,990 --> 05:20:18,240

temperature it doesn't infrared lens has

4904

05:20:22,970 --> 05:20:21,000

a 3D printed nose cone this is the

4905

05:20:25,070 --> 05:20:22,980

second rocket that was built in four

4906

05:20:27,050 --> 05:20:25,080

days after the first one had a higher

4907

05:20:28,730 --> 05:20:27,060

than normal descent rate whatever that

4908

05:20:30,830 --> 05:20:28,740

means

4909

05:20:33,350 --> 05:20:30,840

is a small and mighty team of six

4910

05:20:35,948 --> 05:20:33,360

members a very tenacious group The

4911

05:20:38,330 --> 05:20:35,958

Rocket crash built and rebuilt a new one

4912

05:20:39,530 --> 05:20:38,340

one of the team members I was hoping

4913

05:20:40,850 --> 05:20:39,540

that team members were in that Orange

4914

05:20:42,230 --> 05:20:40,860

full suit I don't know if they're

4915

05:20:46,610 --> 05:20:42,240

wearing that orange suit again maybe

4916

05:20:54,470 --> 05:20:51,890

okay so we are gonna go on the

4917

05:20:58,310 --> 05:20:54,480

project uh looks like oh Project New

4918

05:20:59,990 --> 05:20:58,320

Heights on pad 22 clear sky clear range

4919

05:21:06,170 --> 05:21:00,000

we're gonna launch this rocket in five

4920

05:21:06,180 --> 05:21:15,910

foreign

4921

05:21:15,920 --> 05:21:25,010

[Applause]

4922

05:21:36,830 --> 05:21:28,970

there is a parachute out

4923

05:22:02,868 --> 05:21:40,090

Mane is set for

4924

05:22:02,878 --> 05:22:07,610

okay so we're about 1500 feet

4925

05:22:11,448 --> 05:22:09,770

should be close to a thousand feet so

4926

05:22:14,030 --> 05:22:11,458

we'll need that main parachute any

4927

05:22:23,810 --> 05:22:16,730

there it is

4928

05:22:23,820 --> 05:22:45,770

all right

4929

05:22:48,770 --> 05:22:47,750

okay you see a couple folks walk into

4930

05:22:56,090 --> 05:22:48,780

the

4931

05:22:58,490 --> 05:22:56,100

flight card not playing anything but I

4932

05:23:00,530 --> 05:22:58,500

want to realize read the cards at 10 we

4933

05:23:03,410 --> 05:23:00,540

have Rams and Rockets from Angelo State

4934

05:23:06,010 --> 05:23:03,420

University from San Angelo Texas the

4935

05:23:10,190 --> 05:23:06,020

name of this rock is called candy Ram

4936

05:23:11,708 --> 05:23:10,200

26.7 pounds 5.15 inch diameter 8.63 feet

4937

05:23:15,410 --> 05:23:11,718

tall

4938

05:23:17,868 --> 05:23:15,420

this is other notes it says candy cane

4939

05:23:20,270 --> 05:23:17,878

inspired paint job using yellow and blue

4940

05:23:24,230 --> 05:23:20,280

spray paint the experiment information

4941

05:23:28,550 --> 05:23:24,240

is a cad Z acronym for team members

4942

05:23:40,190 --> 05:23:31,128

Okay so we've been informed that the

4943

05:23:40,200 --> 05:23:43,448

foreign

4944

05:23:57,230 --> 05:23:46,550

cell the box is on 10 11 12 does not

4945

05:24:11,930 --> 05:24:02,930

okay

4946

05:24:15,830 --> 05:24:13,788

I guess I don't need to say anything

4947

05:24:17,990 --> 05:24:15,840

they already know they're up this is a

4948

05:24:24,350 --> 05:24:18,000

team name is Draco this is a university

4949

05:24:26,750 --> 05:24:24,360

of Puerto Rico at my uh mayaguez campus

4950

05:24:30,230 --> 05:24:26,760

name of the rocket is Draco it weighs

4951
05:24:32,270 --> 05:24:30,240
50.6 pounds six inch in diameter 10 feet

4952
05:24:35,948 --> 05:24:32,280
tall the experiment information has the

4953
05:24:38,570 --> 05:24:35,958
LSR Rover autonomous self-writing Rover

4954
05:24:42,350 --> 05:24:38,580
with on-site image recognition

4955
05:24:46,930 --> 05:24:44,830
so this rocket is flying on an

4956
05:24:51,230 --> 05:24:46,940
accessoruni

4957
05:24:52,868 --> 05:24:51,240
l2375 white Thunder should go estimated

4958
05:24:56,390 --> 05:24:52,878
altitude

4959
05:24:59,270 --> 05:24:56,400
5690 feet so that'd be the type of these

4960
05:25:01,430 --> 05:24:59,280
highest projected altitude

4961
05:25:02,868 --> 05:25:01,440
and on their payload it had like a bunch

4962
05:25:05,390 --> 05:25:02,878
of chains on there so it looks like it

4963
05:25:09,410 --> 05:25:05,400

kind of moves around and then these fins

4964

05:25:11,628 --> 05:25:09,420

are elliptical slotted and mono coated

4965

05:25:14,150 --> 05:25:11,638

I also made a special unique mascot

4966

05:25:17,510 --> 05:25:14,160

their Bulldog being in a spacesuit this

4967

05:25:19,490 --> 05:25:17,520

team has 46 team members 26 of them are

4968

05:25:21,890 --> 05:25:19,500

here at the competition

4969

05:25:24,110 --> 05:25:21,900

they are full in subscale flight landing

4970

05:25:26,510 --> 05:25:24,120

it's a very very tall grass as I saw the

4971

05:25:28,128 --> 05:25:26,520

photo pretty impressive they found it on

4972

05:25:32,208 --> 05:25:28,138

pad 40 where you're going to go with

4973

05:25:34,430 --> 05:25:32,218

Draco we have a clear sky we yep had 40.

4974

05:25:36,890 --> 05:25:34,440

we have a clear sky we have a clear

4975

05:25:48,770 --> 05:25:36,900

range we're going to watch 40 in five

4976

05:25:48,780 --> 05:25:53,448

very healthy boost on that motor

4977

05:25:59,090 --> 05:25:56,230

so do we think that went the

4978

05:26:23,390 --> 05:25:59,100

5690 feet

4979

05:26:23,400 --> 05:26:28,250

okay all right

4980

05:26:28,260 --> 05:26:31,730

okay

4981

05:26:36,830 --> 05:26:34,610

main except for 700 feet so we're

4982

05:26:40,910 --> 05:26:36,840

probably about

4983

05:26:40,920 --> 05:26:45,110

about a thousand feet now

4984

05:26:52,730 --> 05:26:47,330

okay we should have a parachute any

4985

05:26:52,740 --> 05:26:59,590

[Applause]

4986

05:27:06,410 --> 05:27:03,650

shoots out they're very excited and they

4987

05:27:10,868 --> 05:27:06,420

were lucky to booster hit the parachute

4988

05:27:15,890 --> 05:27:12,650

I want to go over there with that

4989

05:27:15,900 --> 05:27:22,868

okay we're going to pad number 41.

4990

05:27:29,708 --> 05:27:26,930

okay Pat 41 this is Knights experimental

4991

05:27:32,510 --> 05:27:29,718

rocketry University of Central Florida

4992

05:27:34,910 --> 05:27:32,520

in Orlando Florida

4993

05:27:38,208 --> 05:27:34,920

name of this rocket is

4994

05:27:40,930 --> 05:27:38,218

a ski a skleet pierce thank you for

4995

05:27:44,628 --> 05:27:40,940

phonetically helping me out on that one

4996

05:27:47,628 --> 05:27:44,638

26.3 pounds 5.2 inch in diameter

4997

05:27:51,470 --> 05:27:47,638

6.9 feet tall has an orange lower body

4998

05:27:53,930 --> 05:27:51,480

white upper body and a black switchband

4999

05:27:56,050 --> 05:27:53,940

does have a payload integrated launch

5000

05:27:59,150 --> 05:27:56,060

log called the pill let's say

5001
05:28:02,170 --> 05:27:59,160
self-orienting cylinder with Deployable

5002
05:28:05,930 --> 05:28:02,180
camera this is flying on a

5003
05:28:08,868 --> 05:28:05,940
k1000 elite Blue Thunder

5004
05:28:10,970 --> 05:28:08,878
should go about 5500 feet

5005
05:28:12,170 --> 05:28:10,980
and then they named it based on the pill

5006
05:28:16,970 --> 05:28:12,180
as their

5007
05:28:18,230 --> 05:28:16,980
to a creepiest that is hard for me to

5008
05:28:21,250 --> 05:28:18,240
pronounce but it does stand for

5009
05:28:23,390 --> 05:28:21,260
represents the Greek god of medicine

5010
05:28:26,030 --> 05:28:23,400
earlier when I saw it this week the

5011
05:28:28,670 --> 05:28:26,040
rocket was not painted now it is painted

5012
05:28:30,288 --> 05:28:28,680
so between when they had it they got

5013
05:28:32,448 --> 05:28:30,298

some paint on it

5014

05:28:34,190 --> 05:28:32,458

and they also do carry the second

5015

05:28:36,530 --> 05:28:34,200

biggest quick links out here at a

5016

05:28:40,430 --> 05:28:36,540

whopping 4 600 pound brake Force for

5017

05:28:43,610 --> 05:28:41,810

um it looks like oh and this team is

5018

05:28:45,590 --> 05:28:43,620

also very proud they can get this rocket

5019

05:28:48,170 --> 05:28:45,600

ready and prepared within 15 minutes

5020

05:28:50,090 --> 05:28:48,180

they have a lot of carbon fiber on it

5021

05:28:52,128 --> 05:28:50,100

and used a lot of it as building

5022

05:28:54,350 --> 05:28:52,138

components the team didn't have to

5023

05:28:56,990 --> 05:28:54,360

overcome some subscale and full-scale

5024

05:28:58,670 --> 05:28:57,000

flights the first one didn't fare well

5025

05:29:01,910 --> 05:28:58,680

you'll have to ask him about it it

5026

05:29:05,090 --> 05:29:01,920

landed in the only one canal in miles so

5027

05:29:07,010 --> 05:29:05,100

they did say it is submarine tested I'm

5028

05:29:10,490 --> 05:29:07,020

not sure what that means but the rocket

5029

05:29:12,590 --> 05:29:10,500

is sub submarine tested and approved on

5030

05:29:18,830 --> 05:29:12,600

pad 41 we are going to launch eclepius

5031

05:29:29,330 --> 05:29:21,530

clear sky clear range we're gonna launch

5032

05:29:37,910 --> 05:29:29,580

[Applause]

5033

05:29:37,920 --> 05:29:43,550

starting to Arc over

5034

05:29:43,560 --> 05:29:48,230

there's an event

5035

05:29:53,208 --> 05:29:50,390

drove parachutes out the main except for

5036

05:29:57,590 --> 05:29:56,030

thank you Central Florida assisting on

5037

05:30:02,510 --> 05:29:57,600

the countdown they are the only team

5038

05:30:05,868 --> 05:30:04,610

their main pair shoots out a little

5039

05:30:08,330 --> 05:30:05,878

early

5040

05:30:12,708 --> 05:30:08,340

I don't unless that's 600 feet but I

5041

05:30:19,610 --> 05:30:14,570

so we're going for the K parachute

5042

05:30:24,800 --> 05:30:21,470

that one's gonna be hanging up there for

5043

05:30:24,810 --> 05:30:35,110

[Music]

5044

05:30:41,090 --> 05:30:38,628

I hear the UCF chants they're pretty

5045

05:30:43,550 --> 05:30:41,100

excited and pumped

5046

05:30:45,890 --> 05:30:43,560

we will continue on we'll keep an eye on

5047

05:30:57,430 --> 05:30:45,900

that that one up in the air right now so

5048

05:31:03,590 --> 05:31:01,788

yep pad 42 we have Wildcat rocketry this

5049

05:31:06,530 --> 05:31:03,600

is Central Washington University of

5050

05:31:07,910 --> 05:31:06,540

Ellensburg Washington name of this

5051
05:31:09,410 --> 05:31:07,920
rocket so I was like one person's

5052
05:31:10,810 --> 05:31:09,420
excited the name of the rocket is

5053
05:31:14,390 --> 05:31:10,820
dragonfly

5054
05:31:17,690 --> 05:31:14,400
35.7 pounds five inches in diameter

5055
05:31:19,850 --> 05:31:17,700
uh nine feet ten inches tall

5056
05:31:21,170 --> 05:31:19,860
the experiment information is Project

5057
05:31:23,990 --> 05:31:21,180
rocks

5058
05:31:26,330 --> 05:31:24,000
reception and operation of command

5059
05:31:27,530 --> 05:31:26,340
sequence after landing the nose cone

5060
05:31:29,208 --> 05:31:27,540
separates

5061
05:31:30,770 --> 05:31:29,218
that's when the main parachute was

5062
05:31:32,868 --> 05:31:30,780
supposed to come out it's got a little

5063
05:31:34,910 --> 05:31:32,878

got a little early

5064

05:31:37,250 --> 05:31:34,920

after landing the nose cone separates

5065

05:31:41,030 --> 05:31:37,260

via linear

5066

05:31:42,948 --> 05:31:41,040

actuator and Camera extends like a

5067

05:31:45,650 --> 05:31:42,958

periscope

5068

05:31:50,570 --> 05:31:45,660

so this rocket is flying on Aerotech 11l

5069

05:31:52,550 --> 05:31:50,580

1115 Redline should go 5000 feet

5070

05:31:55,368 --> 05:31:52,560

oh this rocket I remember looking at the

5071

05:31:57,170 --> 05:31:55,378

at the avionics thing

5072

05:31:58,730 --> 05:31:57,180

add some of the biggest switches I've

5073

05:32:00,650 --> 05:31:58,740

ever seen I don't know where they Source

5074

05:32:02,208 --> 05:32:00,660

those switches from but probably could

5075

05:32:04,490 --> 05:32:02,218

turn on a whole city they're as big as

5076

05:32:07,010 --> 05:32:04,500

the biggest ones I've seen the team

5077

05:32:08,868 --> 05:32:07,020

names they always base their names off

5078

05:32:10,730 --> 05:32:08,878

of insects so this year was the

5079

05:32:13,128 --> 05:32:10,740

dragonfly and then they painted that

5080

05:32:14,690 --> 05:32:13,138

into the rocket as well I also found out

5081

05:32:16,970 --> 05:32:14,700

with the paint drop it took him over

5082

05:32:18,890 --> 05:32:16,980

five hours to mask off and paint the

5083

05:32:20,150 --> 05:32:18,900

rocket but they were very committed to

5084

05:32:22,970 --> 05:32:20,160

style points which I don't know if

5085

05:32:25,310 --> 05:32:22,980

that's a area to qualify for but maybe

5086

05:32:28,010 --> 05:32:25,320

it is a part of the competition okay on

5087

05:32:31,430 --> 05:32:28,020

pad 42 we're gonna fly the dragonfly L

5088

05:32:35,090 --> 05:32:31,440

1150 closed sky clear range we were

5089

05:32:37,550 --> 05:32:35,100

launching five four three two one

5090

05:32:48,010 --> 05:32:37,560

ignition

5091

05:32:48,020 --> 05:32:52,550

looks good right in the clear blue sky

5092

05:32:52,560 --> 05:32:57,110

slowly starting to Arc over

5093

05:32:57,120 --> 05:33:00,708

there is a drogue event

5094

05:33:04,810 --> 05:33:03,170

okay first part's looking good main is

5095

05:33:16,910 --> 05:33:04,820

set for

5096

05:33:37,250 --> 05:33:18,650

that one probably definitely went all

5097

05:33:45,110 --> 05:33:39,288

so we're still probably about 1500 feet

5098

05:33:53,030 --> 05:33:47,750

okay about a thousand feet so pretty

5099

05:33:53,040 --> 05:33:58,550

there it is

5100

05:34:04,250 --> 05:34:00,470

okay looks like a really good flight on

5101

05:34:10,910 --> 05:34:07,368

yep going for closest to the pad

5102

05:34:15,110 --> 05:34:10,920

okay I'm pad 43 we have Buckeye space

5103

05:34:17,930 --> 05:34:15,120

launch initiative the school is the Ohio

5104

05:34:22,550 --> 05:34:17,940

State University in Columbus Ohio

5105

05:34:27,350 --> 05:34:24,530

what was that no but the name of the

5106

05:34:31,010 --> 05:34:27,360

rocket is Cosmos not to be mixed up with

5107

05:34:34,430 --> 05:34:31,020

North Dakota Cosmo so Cosmos here Cosmo

5108

05:34:35,930 --> 05:34:34,440

earlier this is the first time this team

5109

05:34:38,930 --> 05:34:35,940

has ever had a flight in Huntsville

5110

05:34:42,110 --> 05:34:38,940

Alabama it's a 34 pound rocket six inch

5111

05:34:43,990 --> 05:34:42,120

in diameter 9.33 feet tall they want to

5112

05:34:47,690 --> 05:34:44,000

say thank you to

5113

05:34:49,550 --> 05:34:47,700

Spring Grove for help on the motor so

5114

05:34:51,948 --> 05:34:49,560

thank you nice for the teams to kind of

5115

05:34:53,810 --> 05:34:51,958

work together on this one they use the

5116

05:34:57,410 --> 05:34:53,820

experiment information it's called clamp

5117

05:34:59,330 --> 05:34:57,420

camera Lander area mapping payload has a

5118

05:35:02,270 --> 05:34:59,340

servo motor powers

5119

05:35:04,490 --> 05:35:02,280

Twist of leads and screws attached to

5120

05:35:06,410 --> 05:35:04,500

the nose cone the nose come separates

5121

05:35:09,470 --> 05:35:06,420

from the body tube and the camera then

5122

05:35:13,850 --> 05:35:12,170

this is flying on an Aerotech

5123

05:35:15,830 --> 05:35:13,860

oh no actually you know it's changed

5124

05:35:18,830 --> 05:35:15,840

it's flying on a cesaroni

5125

05:35:19,910 --> 05:35:18,840

K 1440 I think it's the white Thunder

5126

05:35:22,430 --> 05:35:19,920

motor

5127

05:35:25,250 --> 05:35:22,440

maybe 4 800 feet I'd probably say

5128

05:35:27,470 --> 05:35:25,260

probably close to 4 000 feet oh and with

5129

05:35:29,270 --> 05:35:27,480

this rocket in the payload section it

5130

05:35:31,128 --> 05:35:29,280

had the most wires I've ever seen I

5131

05:35:32,690 --> 05:35:31,138

think they took a computer took all the

5132

05:35:34,850 --> 05:35:32,700

wires out of it and stuffed it into that

5133

05:35:36,530 --> 05:35:34,860

payload it was very organized with just

5134

05:35:38,390 --> 05:35:36,540

a lot of wires

5135

05:35:39,590 --> 05:35:38,400

they did say in the subscale flight the

5136

05:35:41,750 --> 05:35:39,600

nose cone went away I don't know what

5137

05:35:43,788 --> 05:35:41,760

they mean by went away but they had to

5138

05:35:45,890 --> 05:35:43,798

do another nose cone

5139

05:35:47,448 --> 05:35:45,900

they said usually when you attach the

5140

05:35:49,550 --> 05:35:47,458

nose cone that's a good thing so they

5141

05:35:51,890 --> 05:35:49,560

must have forgot to do that

5142

05:35:53,330 --> 05:35:51,900

this is the fourth year the team has

5143

05:35:55,670 --> 05:35:53,340

competed though it's the first time

5144

05:35:58,310 --> 05:35:55,680

they've made it out here this is a 30

5145

05:36:00,650 --> 05:35:58,320

person team on this project and the

5146

05:36:02,690 --> 05:36:00,660

university has a total of over a hundred

5147

05:36:04,910 --> 05:36:02,700

team members involved with the rocketry

5148

05:36:10,910 --> 05:36:04,920

on campus a very big group

5149

05:36:12,708 --> 05:36:10,920

okay pad 43 the Cosmos on the k-1440 we

5150

05:36:16,550 --> 05:36:12,718

have a clear sky we have a clear range

5151
05:36:18,410 --> 05:36:16,560
we will launch in five four three two

5152
05:36:24,530 --> 05:36:18,420
one ignition

5153
05:36:31,208 --> 05:36:29,510
a like mild Corkscrew on the ascent part

5154
05:36:34,970 --> 05:36:31,218
you probably have to guess

5155
05:36:41,690 --> 05:36:34,980
maybe up to 3000 feet there is a drug on

5156
05:36:41,700 --> 05:36:46,550
main is set for 600 feet

5157
05:36:52,128 --> 05:36:48,530
we should probably be about 1500 feet

5158
05:36:55,850 --> 05:36:53,570
it's gonna be about a thousand so any

5159
05:36:58,850 --> 05:36:55,860
moment now we should see the main

5160
05:37:01,010 --> 05:36:58,860
there's the main the main needs to open

5161
05:37:01,920 --> 05:37:01,020
get some air under there

5162
05:37:07,190 --> 05:37:01,930
there it is

5163
05:37:10,730 --> 05:37:08,810

all right nice showing for the first

5164

05:37:11,890 --> 05:37:10,740

time out here good looks like to be a

5165

05:37:13,430 --> 05:37:11,900

good flight

5166

05:37:15,830 --> 05:37:13,440

[Music]

5167

05:37:20,390 --> 05:37:15,840

well one person is really excited I can

5168

05:37:20,400 --> 05:37:28,550

okay we're going to now pad number 60

5169

05:37:36,948 --> 05:37:30,470

.

5170

05:37:41,090 --> 05:37:36,958

yeah but when a pad 60 this is NASA at

5171

05:37:43,970 --> 05:37:41,100

yeah NASA at SL at VT this is Virginia

5172

05:37:46,550 --> 05:37:43,980

Tech at a Blacksburg Virginia

5173

05:37:48,850 --> 05:37:46,560

the name of this rocket is the fighting

5174

05:37:52,430 --> 05:37:48,860

gobbler 54 pounds

5175

05:37:56,570 --> 05:37:52,440

6.17 inch diameter

5176

05:37:58,128 --> 05:37:56,580

uh length is 146 feet tall that is a

5177

05:38:00,590 --> 05:37:58,138

really tall rocket

5178

05:38:03,890 --> 05:38:00,600

the other vehicle notes is this a lipo

5179

05:38:05,868 --> 05:38:03,900

located in Upper forward section

5180

05:38:07,368 --> 05:38:05,878

okay I feel like a lot of rockets have

5181

05:38:09,590 --> 05:38:07,378

LiPO batteries but they wanted to call

5182

05:38:12,788 --> 05:38:09,600

that one out the experiment information

5183

05:38:16,250 --> 05:38:12,798

is called Owl is an autonomous camera

5184

05:38:20,090 --> 05:38:16,260

receding radio commands

5185

05:38:21,288 --> 05:38:20,100

this one is flying on a Aerotech I1420

5186

05:38:24,650 --> 05:38:21,298

Red Line

5187

05:38:26,690 --> 05:38:24,660

should go about 5 000 feet this was a

5188

05:38:28,610 --> 05:38:26,700

pretty unique rocket with the payload I

5189

05:38:31,788 --> 05:38:28,620

saw the camera that rotates in two

5190

05:38:34,310 --> 05:38:31,798

different axes axes swivels in both

5191

05:38:35,990 --> 05:38:34,320

directions and the payload is always set

5192

05:38:38,208 --> 05:38:36,000

to land upright

5193

05:38:40,670 --> 05:38:38,218

had a really cool paint job as it faded

5194

05:38:43,430 --> 05:38:40,680

into the school team colors this team

5195

05:38:45,650 --> 05:38:43,440

also has about 30 to 32 team members and

5196

05:38:47,990 --> 05:38:45,660

16 of them are here today

5197

05:38:50,990 --> 05:38:48,000

I was told the team also has their own

5198

05:38:52,850 --> 05:38:51,000

Instagram page they have a also have a

5199

05:38:54,530 --> 05:38:52,860

brochure about their rocket Labs which

5200

05:38:56,990 --> 05:38:54,540

was pretty neat to see a very well done

5201
05:38:58,850 --> 05:38:57,000
professionally brochure okay on pad 60

5202
05:39:00,530 --> 05:38:58,860
we're gonna watch the fighting gobbler

5203
05:39:04,430 --> 05:39:00,540
clear sky

5204
05:39:14,390 --> 05:39:04,440
clear range we will launch in five four

5205
05:39:14,400 --> 05:39:19,190
uh Park's looking good

5206
05:39:24,170 --> 05:39:22,430
a really nice slow Majestic takeoff easy

5207
05:39:26,390 --> 05:39:24,180
on the electronic because what they were

5208
05:39:28,368 --> 05:39:26,400
going for arcing over

5209
05:39:31,850 --> 05:39:28,378
there is an event

5210
05:39:47,810 --> 05:39:31,860
there's it's back up to the apogee

5211
05:39:54,410 --> 05:39:50,030
so we're probably about 1500 feet right

5212
05:39:59,330 --> 05:39:57,590
probably close to a thousand feet so

5213
05:40:05,208 --> 05:39:59,340

this one we should see the main pretty

5214

05:40:12,250 --> 05:40:07,430

so now is usually when you want to see

5215

05:40:19,730 --> 05:40:16,010

okay there it is

5216

05:40:23,868 --> 05:40:21,708

they did not give themselves a lot of

5217

05:40:26,628 --> 05:40:23,878

room between the upper section and the

5218

05:40:49,190 --> 05:40:26,638

lower section it's like almost right in

5219

05:40:49,200 --> 05:40:54,430

okay we're now going to pad

5220

05:41:02,270 --> 05:40:58,610

61. pad 61 is

5221

05:41:03,590 --> 05:41:02,280

talk is it taco lycos

5222

05:41:05,628 --> 05:41:03,600

we

5223

05:41:07,910 --> 05:41:05,638

I'm hearing yes and no at the same time

5224

05:41:13,640 --> 05:41:07,920

this is North Carolina State University

5225

05:41:18,470 --> 05:41:16,128

[Applause]

5226

05:41:21,470 --> 05:41:18,480

dog pack is that what you're saying oh

5227

05:41:23,990 --> 05:41:21,480

wolf pack dot not dog pack the name of

5228

05:41:28,730 --> 05:41:24,000

the rocket is I don't care what the

5229

05:41:30,230 --> 05:41:28,740

rocket name is just pick something okay

5230

05:41:32,750 --> 05:41:30,240

yeah

5231

05:41:37,128 --> 05:41:32,760

we're gonna call it Bob okay this rocket

5232

05:41:40,070 --> 05:41:37,138

weighs 41.38 pounds 6.17 inch diameter

5233

05:41:42,470 --> 05:41:40,080

length is 8.7 feet tall

5234

05:41:44,330 --> 05:41:42,480

this rocket is a unique paint job it is

5235

05:41:46,430 --> 05:41:44,340

painted like rainbow road if anyone's

5236

05:41:48,288 --> 05:41:46,440

ever played Mario Kart that's one of

5237

05:41:49,788 --> 05:41:48,298

those really hard levels that has

5238

05:41:51,230 --> 05:41:49,798

painted like the Rainbow Road they put a

5239

05:41:54,948 --> 05:41:51,240

lot of work into that

5240

05:41:58,490 --> 05:41:54,958

the experiment information says soas

5241

05:42:01,730 --> 05:41:58,500

surrounding Optics in camera system

5242

05:42:04,730 --> 05:42:01,740

and then on this project they had a lot

5243

05:42:06,650 --> 05:42:04,740

of they call it uh cupola which is a

5244

05:42:09,470 --> 05:42:06,660

play on the what the International Space

5245

05:42:11,628 --> 05:42:09,480

Station has or an Italian word for Dome

5246

05:42:13,430 --> 05:42:11,638

so that's where all the cameras are

5247

05:42:15,770 --> 05:42:13,440

going and they have a 3D printed tail

5248

05:42:17,270 --> 05:42:15,780

cone for aerodynamics

5249

05:42:20,030 --> 05:42:17,280

they also have some hidden

5250

05:42:22,970 --> 05:42:20,040

constellations painted in the rocket

5251

05:42:25,310 --> 05:42:22,980

in the past 10 days they had a subscale

5252

05:42:27,770 --> 05:42:25,320

or scale flight they said the motor

5253

05:42:29,628 --> 05:42:27,780

rapidly disassembled I don't know what

5254

05:42:31,430 --> 05:42:29,638

that means but they had to rebuild

5255

05:42:33,948 --> 05:42:31,440

sections of the rocket including part of

5256

05:42:36,590 --> 05:42:33,958

the payload the fins are removable and

5257

05:42:39,170 --> 05:42:36,600

they have brought spare ones with them

5258

05:42:41,570 --> 05:42:39,180

this this team also has a 10 person

5259

05:42:43,670 --> 05:42:41,580

leadership team and they are proud to

5260

05:42:44,690 --> 05:42:43,680

have eight of them being women which is

5261

05:42:47,570 --> 05:42:44,700

terrific

5262

05:42:50,270 --> 05:42:47,580

this team also does carry a tick tock

5263

05:42:53,030 --> 05:42:50,280

page and the name was voted on by the

5264

05:42:54,830 --> 05:42:53,040

team twice and won the majority vote so

5265

05:42:57,650 --> 05:42:54,840

they had to vote on it twice

5266

05:43:00,230 --> 05:42:57,660

also with this team itself in the

5267

05:43:01,270 --> 05:43:00,240

University of North Carolina State

5268

05:43:03,948 --> 05:43:01,280

University

5269

05:43:06,708 --> 05:43:03,958

they've had several team members that

5270

05:43:09,050 --> 05:43:06,718

have competed in this SLI and it now

5271

05:43:13,368 --> 05:43:09,060

worked for NASA to this day even a story

5272

05:43:15,530 --> 05:43:13,378

and feature piece last year on John I

5273

05:43:18,110 --> 05:43:15,540

Inez who actually is in the house today

5274

05:43:21,830 --> 05:43:18,120

so John is in the house take a bow John

5275

05:43:23,628 --> 05:43:21,840

yeah John's excited he's waving okay so

5276

05:43:26,448 --> 05:43:23,638

a lot of alumn now work for NASA this

5277

05:43:28,430 --> 05:43:26,458

thing is all coming together

5278

05:43:31,250 --> 05:43:28,440

okay why should people call the rocket

5279

05:43:33,110 --> 05:43:31,260

John instead of Bob okay on pad 61 we

5280

05:43:36,590 --> 05:43:33,120

have a clear sky we have a clear range

5281

05:43:45,470 --> 05:43:36,600

we're gonna launch in five four three

5282

05:43:51,470 --> 05:43:48,590

oh I meant it's an Aerotech I1520 Blue

5283

05:43:56,150 --> 05:43:51,480

Thunder should be on its way to 4 500

5284

05:44:04,910 --> 05:43:58,910

for an arc over

5285

05:44:04,920 --> 05:44:08,090

the main

5286

05:44:17,628 --> 05:44:11,570

maybe a thousand feet 600 feet 600 feet

5287

05:44:26,048 --> 05:44:19,910

still probably about 2 000 feet up right

5288

05:44:26,058 --> 05:44:36,410

approaching a thousand right now

5289

05:44:40,368 --> 05:44:38,208

okay we should see the parachute any

5290

05:44:42,288 --> 05:44:40,378

moment now

5291

05:44:45,948 --> 05:44:42,298

there it is

5292

05:44:52,730 --> 05:44:49,820

the Rainbow Road paint job came in handy

5293

05:44:54,970 --> 05:44:52,740

[Applause]

5294

05:45:00,770 --> 05:44:54,980

oh

5295

05:45:00,780 --> 05:45:08,030

see where that lands

5296

05:45:15,948 --> 05:45:10,010

yup it's in front of the trees so

5297

05:45:20,690 --> 05:45:18,288

okay I'm pad 62 we have Cedarville

5298

05:45:24,230 --> 05:45:20,700

student launch at a Cedarville

5299

05:45:26,770 --> 05:45:24,240

University in Cedarville Ohio

5300

05:45:30,830 --> 05:45:26,780

name of this rock is called Trailblazer

5301

05:45:33,288 --> 05:45:30,840

56.34 pounds six inch in diameter is 10

5302

05:45:35,868 --> 05:45:33,298

feet tall the name of this or this

5303

05:45:37,970 --> 05:45:35,878

rocket is painted like

5304

05:45:39,890 --> 05:45:37,980

like a cob of corn

5305

05:45:41,570 --> 05:45:39,900

so yeah it's going to kind of blend in

5306

05:45:42,890 --> 05:45:41,580

with the scenery here so there is a

5307

05:45:46,610 --> 05:45:42,900

rocket out there

5308

05:45:51,250 --> 05:45:46,620

the experiment information it has uh

5309

05:45:54,430 --> 05:45:51,260

Peep and ALS which stands for panoramic

5310

05:45:55,990 --> 05:45:54,440

extraterrestrial environment

5311

05:45:58,730 --> 05:45:56,000

uh

5312

05:46:01,850 --> 05:45:58,740

photographer rotates around body tube

5313

05:46:05,208 --> 05:46:01,860

after landing then the secondary airbag

5314

05:46:10,970 --> 05:46:05,218

Landing system deployed with CO2

5315

05:46:16,868 --> 05:46:13,850

and this is flying on Aerotech I2200

5316

05:46:19,910 --> 05:46:16,878

Mojave green should go about 4 400 feet

5317

05:46:21,830 --> 05:46:19,920

yep they said call it peep not Peeps

5318

05:46:23,990 --> 05:46:21,840

they don't know what it stands for oh

5319

05:46:26,930 --> 05:46:24,000

they didn't tell me earlier okay

5320

05:46:29,330 --> 05:46:26,940

and when this team also has fishing line

5321

05:46:32,510 --> 05:46:29,340

on the inside and it melts some fishing

5322

05:46:34,430 --> 05:46:32,520

line to move the payload around so we've

5323

05:46:35,448 --> 05:46:34,440

got all kinds of stuff from there their

5324

05:46:37,250 --> 05:46:35,458

parents are probably wondering where

5325

05:46:40,670 --> 05:46:37,260

their fishing line went

5326

05:46:43,128 --> 05:46:40,680

let's also for this team

5327

05:46:44,930 --> 05:46:43,138

a interesting fact on this team for them

5328

05:46:46,970 --> 05:46:44,940

to work and cut with fiberglass they had

5329

05:46:48,948 --> 05:46:46,980

to be in full coveralls and the team

5330

05:46:50,990 --> 05:46:48,958

liked to do that and had fun with it

5331

05:46:52,850 --> 05:46:51,000

they like they're doing a good job

5332

05:46:55,310 --> 05:46:52,860

following the school's safety guidelines

5333

05:46:58,610 --> 05:46:55,320

a total of 10 team members for this

5334

05:47:02,150 --> 05:46:58,620

project pad 62 the flying year of corn

5335

05:47:05,990 --> 05:47:02,160

the Trailblazer clear sky clear range we

5336

05:47:16,548 --> 05:47:06,000

will watch in five four three two one

5337

05:47:16,558 --> 05:47:21,948

supposed to be on its way to 4 400 feet

5338

05:47:21,958 --> 05:47:25,970

start an arc over

5339

05:47:45,590 --> 05:47:28,610

there's an event

5340

05:47:45,600 --> 05:47:51,670

foreign

5341

05:47:51,680 --> 05:47:56,410

feet right now

5342

05:48:02,690 --> 05:48:00,470

probably about a thousand feet

5343

05:48:07,190 --> 05:48:02,700

should be any moment now the main comes

5344

05:48:11,868 --> 05:48:08,690

all right looks like a good textbook

5345

05:48:36,948 --> 05:48:20,390

s

5346

05:48:39,530 --> 05:48:36,958

pretty cool they named it after their

5347

05:48:41,208 --> 05:48:39,540

Mentor Dave so Dave brunstein has been a

5348

05:48:43,548 --> 05:48:41,218

mentor for a number of years for this

5349

05:48:46,610 --> 05:48:43,558

team so pretty cool that they attributed

5350

05:48:49,930 --> 05:48:46,620

the rocket after him rocket weighs 53.6

5351

05:48:53,330 --> 05:48:49,940

pounds 6.17 inch diameter

5352

05:48:55,970 --> 05:48:53,340

10.875 feet tall this rocket does have

5353

05:48:58,730 --> 05:48:55,980

an apogee control system on board that

5354

05:49:01,670 --> 05:48:58,740

actively adjusts altitude using

5355

05:49:04,250 --> 05:49:01,680

extendable or extending fins so the

5356

05:49:07,730 --> 05:49:04,260

target altitude is 4 600 feet of

5357

05:49:10,010 --> 05:49:07,740

Aerotech L 2200 Mojave green on the

5358

05:49:12,490 --> 05:49:10,020

experiment information it has a 360

5359

05:49:15,070 --> 05:49:12,500

degree rotating Optical

5360

05:49:19,490 --> 05:49:15,080

Optical imager called

5361

05:49:22,368 --> 05:49:19,500

iron lead screws system deploys camera

5362

05:49:24,650 --> 05:49:22,378

out of front and payload body tube camera

5363

05:49:28,610 --> 05:49:24,660

can spin 360 degrees

5364

05:49:31,490 --> 05:49:28,620

about z-axis from rafco

5365

05:49:33,288 --> 05:49:31,500

lots of stuff going on there so without

5366

05:49:35,208 --> 05:49:33,298

that air braking system the rocket would

5367

05:49:39,288 --> 05:49:35,218

go to 5300 feet but it's going to have

5368

05:49:41,150 --> 05:49:39,298

it limit itself to 4 600 100 feet when

5369

05:49:43,070 --> 05:49:41,160

looking at the rocket the fins looked

5370

05:49:44,628 --> 05:49:43,080

really small but done all its upscale

5371

05:49:47,510 --> 05:49:44,638

flights they notice there's a little bit

5372

05:49:49,990 --> 05:49:47,520

overstable and they said they filed the

5373

05:49:52,670 --> 05:49:50,000

fins down hope they didn't take too long

5374

05:49:54,650 --> 05:49:52,680

and then they said this rocket has a

5375

05:49:56,270 --> 05:49:54,660

very strong selfie game so I don't know

5376

05:49:58,310 --> 05:49:56,280

what's going on with their selfie game

5377

05:50:06,590 --> 05:49:58,320

but that rocket possesses it

5378

05:50:12,048 --> 05:50:09,048

so this team does have a 50-person team

5379

05:50:13,788 --> 05:50:12,058

that they only have four seniors on this

5380

05:50:16,250 --> 05:50:13,798

team so there's a lot of underclassmen

5381

05:50:18,230 --> 05:50:16,260

on this team supporting it they also did

5382

05:50:21,770 --> 05:50:18,240

paint the rocket based off the football

5383

05:50:25,070 --> 05:50:21,780

designed uniform special to this year

5384

05:50:28,548 --> 05:50:25,080

this rocket has also landed in

5385

05:50:31,310 --> 05:50:28,558

it's landed on higher than normal

5386

05:50:32,930 --> 05:50:31,320

um platforms maybe or maybe not a tree a

5387

05:50:35,030 --> 05:50:32,940

couple of times and almost did it a

5388

05:50:38,510 --> 05:50:35,040

third time so they want to stay away

5389

05:50:40,788 --> 05:50:38,520

from trees I've been told pad 63 the uh

5390

05:50:42,530 --> 05:50:40,798

brunstein ready to go we have a clear

5391

05:50:46,548 --> 05:50:42,540

sky we have a clear range we're going to

5392

05:50:51,430 --> 05:50:46,558

launch this in five four three two one

5393

05:50:51,440 --> 05:50:54,670

thank you

5394

05:50:54,680 --> 05:51:06,230

so it should limit itself to 4 600 feet

5395

05:51:11,990 --> 05:51:08,390

starting to Arc over

5396

05:51:12,000 --> 05:51:27,530

your parachute is out

5397

05:51:36,948 --> 05:51:29,930

so the main on this one is set for 900

5398

05:51:36,958 --> 05:51:50,208

oh

5399

05:51:58,250 --> 05:51:52,128

parachutes I'm sorry the rock is still

5400

05:52:03,890 --> 05:52:01,310

that was the backup I think another all

5401
05:52:06,530 --> 05:52:03,900
kinds of charges on this rocket need the

5402
05:52:09,110 --> 05:52:06,540
parachutes open please there is a lot of

5403
05:52:10,788 --> 05:52:09,120
parachutes this one's gonna blink it a

5404
05:52:13,190 --> 05:52:10,798
little bit

5405
05:52:28,430 --> 05:52:13,200
falls down

5406
05:52:35,750 --> 05:52:31,610
okay so we're going to pad number 80.

5407
05:52:40,368 --> 05:52:35,760
this is the United States Naval Academy

5408
05:52:45,410 --> 05:52:42,350
name of this rocket is called Sunday

5409
05:52:49,730 --> 05:52:45,420
scaries with today's Saturday so the

5410
05:52:52,730 --> 05:52:49,740
rocket weighs 35.15 pounds six inch in

5411
05:52:55,548 --> 05:52:52,740
diameter nine feet seven inches tall

5412
05:52:57,650 --> 05:52:55,558
so on the vehicle notes many of the 13

5413
05:52:59,690 --> 05:52:57,660

team members are going into Naval

5414

05:53:02,150 --> 05:52:59,700

Aviation and hope to join the ranks of

5415

05:53:04,490 --> 05:53:02,160

the 54 astronauts who have graduated

5416

05:53:06,830 --> 05:53:04,500

from the Naval Academy more than any

5417

05:53:09,350 --> 05:53:06,840

other institution in the world

5418

05:53:10,670 --> 05:53:09,360

and with the experiment information the

5419

05:53:13,910 --> 05:53:10,680

electronics

5420

05:53:17,150 --> 05:53:13,920

has a gyroscopic gimbal they call it the

5421

05:53:20,090 --> 05:53:17,160

egg a fully 3D printed gimbal which sits

5422

05:53:22,128 --> 05:53:20,100

within a six inch ball carries Raspberry

5423

05:53:25,548 --> 05:53:22,138

Pi and radio this is supposed to be

5424

05:53:28,910 --> 05:53:25,558

flying on a Aerotech I850 White

5425

05:53:30,048 --> 05:53:28,920

Lightning should go about 5 000 or 5078

5426

05:53:31,970 --> 05:53:30,058

feet

5427

05:53:33,948 --> 05:53:31,980

the team did have to rebuild the field

5428

05:53:36,830 --> 05:53:33,958

completely in one week they identified

5429

05:53:38,448 --> 05:53:36,840

some errors to fix and improve the team

5430

05:53:41,690 --> 05:53:38,458

likes to work well under pressure they

5431

05:53:43,490 --> 05:53:41,700

like to say diamonds under pressure

5432

05:53:45,948 --> 05:53:43,500

I'm in

5433

05:53:48,110 --> 05:53:45,958

in preparation this team had a lot of

5434

05:53:49,610 --> 05:53:48,120

parachute events or issues I hope they

5435

05:53:52,788 --> 05:53:49,620

got all that worked out

5436

05:53:55,730 --> 05:53:52,798

the team also went with a elegant and

5437

05:53:58,070 --> 05:53:55,740

classy paint job like the team those

5438

05:53:59,990 --> 05:53:58,080

aren't my words the team also has a

5439

05:54:02,150 --> 05:54:00,000

ritual on launch day eating Dunkin

5440

05:54:05,030 --> 05:54:02,160

Donuts they'll pick up their donuts in

5441

05:54:07,368 --> 05:54:05,040

team is made up of all seniors

5442

05:54:09,590 --> 05:54:07,378

um the certainly oh this team is also

5443

05:54:11,690 --> 05:54:09,600

made up of all seniors and the servant

5444

05:54:14,750 --> 05:54:11,700

that serves of the academy and also does

5445

05:54:16,670 --> 05:54:14,760

leadership roles within the academy and

5446

05:54:18,048 --> 05:54:16,680

we also want to give a round of them

5447

05:54:19,610 --> 05:54:18,058

Round of Applause because they're going

5448

05:54:21,048 --> 05:54:19,620

to be serving in our U.S military so

5449

05:54:22,970 --> 05:54:21,058

let's give them a round of applause in

5450

05:54:25,310 --> 05:54:22,980

advance so thank you so much for for

5451

05:54:27,350 --> 05:54:25,320

what you're going to be doing

5452

05:54:30,350 --> 05:54:27,360

and then this team will also be going

5453

05:54:33,708 --> 05:54:30,360

into roles as officers either the Navy

5454

05:54:35,270 --> 05:54:33,718

or the Marines either air or ground and

5455

05:54:36,830 --> 05:54:35,280

then my buddy Lucas probably came and

5456

05:54:39,288 --> 05:54:36,840

talked to me a hundred different times

5457

05:54:42,830 --> 05:54:39,298

he did say he wanted to make a shout out

5458

05:54:45,288 --> 05:54:42,840

to wait a minute I believe this is Lucas

5459

05:54:48,110 --> 05:54:45,298

he said wanted to make a shout out to

5460

05:54:50,090 --> 05:54:48,120

Joey's brother who's a little brother

5461

05:54:54,288 --> 05:54:50,100

Billy is going into Colombia just got

5462

05:54:57,110 --> 05:54:54,298

accepted uh Lucas's little sister theya

5463

05:54:59,090 --> 05:54:57,120

just got accepted into UNC Chapel Hill

5464

05:55:00,350 --> 05:54:59,100

this week and it wants to give a shout

5465

05:55:03,230 --> 05:55:00,360

out to

5466

05:55:05,448 --> 05:55:03,240

his mom TJ so I hope I have that tied to

5467

05:55:08,448 --> 05:55:05,458

the right school so hope I got all that

5468

05:55:10,910 --> 05:55:08,458

right a lot of notes okay on pad number

5469

05:55:12,110 --> 05:55:10,920

80. we're gonna fly the Sunday scaries

5470

05:55:14,448 --> 05:55:12,120

rocket

5471

05:55:17,570 --> 05:55:14,458

we have a clear sky we have a clear

5472

05:55:31,010 --> 05:55:17,580

range on pad 80. we're gonna go in five

5473

05:55:31,020 --> 05:55:38,330

yep nice long run that l850

5474

05:55:42,770 --> 05:55:40,610

looks like it's starting to Arc over

5475

05:55:46,548 --> 05:55:42,780

there's a parachute there's it's back up

5476
05:55:48,288 --> 05:55:46,558
to the main drilled parachutes out

5477
05:55:49,788 --> 05:55:48,298
so earlier this morning I was just kind

5478
05:55:52,430 --> 05:55:49,798
of walking around and seeing what the

5479
05:55:54,410 --> 05:55:52,440
teams were doing this team decided to

5480
05:55:55,430 --> 05:55:54,420
just do like a push-up contest so I

5481
05:55:58,490 --> 05:55:55,440
think they were trying to do like 100

5482
05:56:05,110 --> 05:56:03,350
oh one team Oh wrong team I've been

5483
05:56:07,610 --> 05:56:05,120
[Music]

5484
05:56:13,788 --> 05:56:07,620
oh we're gonna have like a push-up uh

5485
05:56:17,510 --> 05:56:15,650
oh I guess NASA is involved in this

5486
05:56:19,910 --> 05:56:17,520
push-up contest now so the rocket still

5487
05:56:25,850 --> 05:56:19,920
is maybe about a thousand feet up should

5488
05:56:29,690 --> 05:56:28,368

okay we're approaching below a thousand

5489

05:56:35,090 --> 05:56:29,700

feet

5490

05:56:39,170 --> 05:56:37,310

the team is going for The Classy

5491

05:56:41,390 --> 05:56:39,180

clapping I guess is what they're going

5492

05:56:44,270 --> 05:56:41,400

with and sorry about the push-up contest

5493

05:56:53,350 --> 05:56:44,280

that's the other team

5494

05:56:59,270 --> 05:56:57,170

on pad 81 we have eclipse rocketry this

5495

05:57:01,490 --> 05:56:59,280

is University of California Davis out of

5496

05:57:03,470 --> 05:57:01,500

Davis California

5497

05:57:06,948 --> 05:57:03,480

name of this rocket is called heavy

5498

05:57:09,590 --> 05:57:06,958

which stands for horizontal ejector and

5499

05:57:12,288 --> 05:57:09,600

vertical eater I don't know if that's a

5500

05:57:15,470 --> 05:57:12,298

technical term but it says eater on

5501

05:57:18,470 --> 05:57:15,480

there 38 pound rocket six inch in

5502

05:57:20,810 --> 05:57:18,480

diameter eight feet four inches tall the

5503

05:57:23,930 --> 05:57:20,820

nose cone jettison's off under its own

5504

05:57:26,930 --> 05:57:23,940

parachute the GPS are featherweight

5505

05:57:28,788 --> 05:57:26,940

brand the experiment information is

5506

05:57:32,690 --> 05:57:28,798

called Scout which stands for spinning

5507

05:57:38,150 --> 05:57:36,170

can't read the writing of something you

5508

05:57:40,368 --> 05:57:38,160

and it looks like it says we are not

5509

05:57:42,830 --> 05:57:40,378

flying the payload of observing terrain

5510

05:57:44,628 --> 05:57:42,840

unknown that's what it stands for

5511

05:57:47,628 --> 05:57:44,638

they're not flying the payload but

5512

05:57:50,570 --> 05:57:47,638

before it was they they crossed out

5513

05:57:52,250 --> 05:57:50,580

destroyed and put damaged Scout was our

5514

05:57:54,048 --> 05:57:52,260

payload

5515

05:57:56,150 --> 05:57:54,058

so it just had a little bit of a damage

5516

05:57:59,628 --> 05:57:56,160

to it this rocket is flying on an

5517

05:58:01,970 --> 05:57:59,638

Aerotech I850 White Lightning should go

5518

05:58:05,208 --> 05:58:01,980

about 4 700 feet this team does have two

5519

05:58:07,310 --> 05:58:05,218

avionic bays has removable fans point of

5520

05:58:08,570 --> 05:58:07,320

view camera nosco does come down a

5521

05:58:10,788 --> 05:58:08,580

separate recovery

5522

05:58:13,128 --> 05:58:10,798

this team is made up about 20 members

5523

05:58:15,350 --> 05:58:13,138

they have they have definitely spent

5524

05:58:17,570 --> 05:58:15,360

over a thousand hours on this project

5525

05:58:20,090 --> 05:58:17,580

and they're very dedicated to it they

5526

05:58:21,708 --> 05:58:20,100

decorate the project in a Sharpie it

5527

05:58:24,590 --> 05:58:21,718

took them five hours to do it and ran

5528

05:58:26,030 --> 05:58:24,600

out of Sharpies also this rocket is the

5529

05:58:28,850 --> 05:58:26,040

only rocket that I'm aware of that is

5530

05:58:30,890 --> 05:58:28,860

waxed they wax the rocket

5531

05:58:32,330 --> 05:58:30,900

so for those that use rocket simulation

5532

05:58:34,490 --> 05:58:32,340

software you've probably heard of the

5533

05:58:37,070 --> 05:58:34,500

call out of finish and it says the

5534

05:58:39,590 --> 05:58:37,080

polished or smooth finish they took it a

5535

05:58:41,868 --> 05:58:39,600

step further and wanted to wax it one of

5536

05:58:45,650 --> 05:58:41,878

the team members referred to it as heavy

5537

05:58:48,830 --> 05:58:45,660

heavy slippery tuna technology that is

5538

05:58:51,590 --> 05:58:48,840

what this rocket has okay with the heavy

5539

05:58:54,230 --> 05:58:51,600

rocket on pad number 81.

5540

05:58:58,490 --> 05:58:54,240

clear sky clear range we will be

5541

05:59:01,430 --> 05:58:58,500

launching in five four three two one

5542

05:59:01,440 --> 05:59:08,990

there it goes

5543

05:59:09,000 --> 05:59:17,090

okay up parts looking good

5544

05:59:17,100 --> 05:59:21,230

sarking over

5545

05:59:25,788 --> 05:59:23,270

okay we don't have an event right now up

5546

05:59:30,048 --> 05:59:25,798

there it is a little late but there

5547

05:59:30,058 --> 05:59:45,010

it's okay

5548

06:00:00,948 --> 05:59:47,390

I mean

5549

06:00:04,910 --> 06:00:03,110

okay that rocket this will be uh it'll

5550

06:00:06,890 --> 06:00:04,920

be up there for a little bit so it's

5551
06:00:09,010 --> 06:00:06,900
like let's do a scan of the field take

5552
06:00:13,548 --> 06:00:09,020
some time

5553
06:00:15,948 --> 06:00:13,558
this is Vanderbilt Aerospace Design Lab

5554
06:00:18,350 --> 06:00:15,958
this is a Vanderbilt this is the school

5555
06:00:20,990 --> 06:00:18,360
out of Nashville Tennessee name of the

5556
06:00:23,628 --> 06:00:21,000
rocket is called New Ham has an unknown

5557
06:00:26,030 --> 06:00:23,638
weight six inch in diameter 10 feet tall

5558
06:00:29,150 --> 06:00:26,040
the experiment information is called

5559
06:00:32,510 --> 06:00:29,160
primary payload autonomous camera system

5560
06:00:35,810 --> 06:00:32,520
with a camera that lifts it swivels out

5561
06:00:38,208 --> 06:00:35,820
after recovering radio commands post

5562
06:00:43,190 --> 06:00:38,218
Landing secondary payload is an air

5563
06:00:49,788 --> 06:00:43,200

brake system targeting apogee called AAC

5564

06:00:52,628 --> 06:00:49,798

this one is flying on a CTI L 2375 it

5565

06:00:54,948 --> 06:00:52,638

should go about 4 500 feet

5566

06:00:58,430 --> 06:00:54,958

this rocket did have three different

5567

06:01:00,530 --> 06:00:58,440

sets of fins one stationary one variable

5568

06:01:02,868 --> 06:01:00,540

to hit a Target altitude and then one

5569

06:01:05,750 --> 06:01:02,878

that deploys upon Landing that's what

5570

06:01:07,850 --> 06:01:05,760

it's called the active apogee control

5571

06:01:10,610 --> 06:01:07,860

the name of the rocket is called New Ham

5572

06:01:15,530 --> 06:01:10,620

it's actually a tribute to ham which is

5573

06:01:21,590 --> 06:01:19,190

yes tribute to the monkey ham this is a

5574

06:01:24,650 --> 06:01:21,600

10 10 team members and this is actually

5575

06:01:26,150 --> 06:01:24,660

a part of a senior design project and

5576

06:01:28,610 --> 06:01:26,160

what I remember looking at that rocket

5577

06:01:30,470 --> 06:01:28,620

there's a lot of carbon fiber lots of

5578

06:01:32,510 --> 06:01:30,480

fins they got a lot of stuff in that

5579

06:01:35,448 --> 06:01:32,520

project so we'll see how it all comes

5580

06:01:35,458 --> 06:01:42,670

foreign

5581

06:01:53,208 --> 06:01:45,830

for the UC Davis rocket just to get

5582

06:01:58,430 --> 06:01:55,850

yeah it looks like UC Davis had a like

5583

06:02:11,470 --> 06:01:58,440

the nose cone part just landed and then

5584

06:02:18,530 --> 06:02:14,330

okay we'll we will proceed on with the

5585

06:02:21,230 --> 06:02:18,540

Vanderbilt rocket New Ham on pad 82.

5586

06:02:23,030 --> 06:02:21,240

we have a clear sky

5587

06:02:27,288 --> 06:02:23,040

we have a clear range we're going to

5588

06:02:32,690 --> 06:02:27,298

launch New Ham in five four three two

5589

06:02:39,310 --> 06:02:36,830

oh that body tube is barely hanging on

5590

06:02:42,170 --> 06:02:39,320

I could see that

5591

06:02:46,430 --> 06:02:42,180

so it's supposed to limit itself to 4

5592

06:02:46,440 --> 06:03:15,708

arcing over there's an event

5593

06:03:21,170 --> 06:03:17,628

okay we're still about

5594

06:03:26,030 --> 06:03:21,180

maybe 1500 feet

5595

06:03:31,190 --> 06:03:28,670

I mean it's set for 650 feet we're

5596

06:03:33,410 --> 06:03:31,200

approaching a thousand feet right now

5597

06:03:35,510 --> 06:03:33,420

should see the main parachute any moment

5598

06:03:38,680 --> 06:03:35,520

there it is

5599

06:03:45,590 --> 06:03:38,690

open up all right

5600

06:03:49,548 --> 06:03:47,810

[Music]

5601
06:04:08,390 --> 06:03:49,558
looks like that one's gonna take his

5602
06:04:08,400 --> 06:04:12,730
foreign

5603
06:04:17,990 --> 06:04:15,650
upon this rocket Landing it's supposed

5604
06:04:20,390 --> 06:04:18,000
to pop out one of the cameras and then

5605
06:04:22,190 --> 06:04:20,400
start to swivel around

5606
06:04:23,750 --> 06:04:22,200
doing a little maintenance out there at

5607
06:04:25,070 --> 06:04:23,760
the launch pad it's a little warm down

5608
06:04:30,830 --> 06:04:25,080
there so just trying to cool it off for

5609
06:05:04,930 --> 06:04:33,288
there's still one more before we uh

5610
06:05:04,940 --> 06:05:23,150
all right

5611
06:05:23,160 --> 06:06:08,448
thank you

5612
06:06:08,458 --> 06:06:16,610
good one

5613
06:06:16,620 --> 06:06:34,010

um

5614

06:06:51,010 --> 06:06:36,548

all right

5615

06:06:56,990 --> 06:06:54,470

okay we've got one more rocket on for

5616

06:06:58,730 --> 06:06:57,000

this volley the three in front we're

5617

06:07:00,288 --> 06:06:58,740

gonna actually integrate in the four

5618

06:07:02,628 --> 06:07:00,298

quality but we're gonna fly the one in

5619

06:07:05,150 --> 06:07:02,638

the far back pads furthest to the right

5620

06:07:07,970 --> 06:07:05,160

this is Darlington State University

5621

06:07:10,310 --> 06:07:07,980

rocket club out of tarlington state

5622

06:07:13,010 --> 06:07:10,320

university and Stevensville Texas pad

5623

06:07:15,650 --> 06:07:13,020

83. the name of this rocket is called

5624

06:07:23,030 --> 06:07:15,660

Turlington aeronautical and rocketry one

5625

06:07:26,470 --> 06:07:24,230

okay

5626
06:07:30,470 --> 06:07:26,480
four inch in diameter

5627
06:07:32,990 --> 06:07:30,480
uh 9.16 feet tall

5628
06:07:35,810 --> 06:07:33,000
the experiment information is called the

5629
06:07:39,288 --> 06:07:35,820
gimbal actuator system gas as a linear

5630
06:07:40,970 --> 06:07:39,298
actuator pushes gimbal camera arm out on

5631
06:07:43,490 --> 06:07:40,980
payload and if it works it'll be

5632
06:07:50,650 --> 06:07:43,500
straight gas

5633
06:07:54,410 --> 06:07:52,368
I910

5634
06:07:58,490 --> 06:07:54,420
this one's also time for the highest

5635
06:08:00,110 --> 06:07:58,500
attempted altitude at 5600 or 5690 feet

5636
06:08:01,910 --> 06:08:00,120
this is the first time the team has been

5637
06:08:04,250 --> 06:08:01,920
here in eight years

5638
06:08:06,048 --> 06:08:04,260

a week ago they had a failed and foul

5639

06:08:09,650 --> 06:08:06,058

payload which had to be completely

5640

06:08:11,390 --> 06:08:09,660

redone and they were able to build a new

5641

06:08:14,510 --> 06:08:11,400

one and rebuilt it

5642

06:08:16,548 --> 06:08:14,520

the rocket is is uh painted in all black

5643

06:08:18,230 --> 06:08:16,558

and then when I first saw it was not

5644

06:08:20,448 --> 06:08:18,240

have any accents so now they've got

5645

06:08:22,010 --> 06:08:20,458

purple added to it so they like the

5646

06:08:23,150 --> 06:08:22,020

subtle as more look but added some

5647

06:08:25,490 --> 06:08:23,160

purple

5648

06:08:27,288 --> 06:08:25,500

on this watch this rocket project and

5649

06:08:29,510 --> 06:08:27,298

team helped the university also

5650

06:08:31,310 --> 06:08:29,520

spearhead their aiaa membership

5651

06:08:36,948 --> 06:08:31,320

acceptance so pretty cool it's all

5652

06:08:41,448 --> 06:08:39,530

being told that there is a

5653

06:08:58,610 --> 06:08:41,458

pool as a planes were holding for a

5654

06:08:58,620 --> 06:09:06,830

um

5655

06:09:13,548 --> 06:09:09,890

okay we'll try it okay we're gonna try

5656

06:09:16,010 --> 06:09:13,558

pad 83 the tar1

5657

06:09:33,590 --> 06:09:16,020

Blue Sky quarter range we're gonna try

5658

06:09:38,330 --> 06:09:35,830

so that one is supposed to go

5659

06:09:41,448 --> 06:09:38,340

5600 feet I believe

5660

06:09:44,090 --> 06:09:41,458

we're tempting the highest altitude

5661

06:09:45,830 --> 06:09:44,100

there's the drove there's its back up to

5662

06:09:58,690 --> 06:09:45,840

the apogee

5663

06:09:58,700 --> 06:10:04,430

an hour

5664

06:10:16,610 --> 06:10:06,350

there's still probably a couple thousand

5665

06:10:16,620 --> 06:10:23,208

so there's still about 1500 feet

5666

06:10:29,570 --> 06:10:26,690

about a thousand feet just below it we

5667

06:10:32,860 --> 06:10:29,580

should see the parachute pretty soon

5668

06:10:35,280 --> 06:10:32,870

right about now there we go

5669

06:10:37,730 --> 06:10:35,290

[Applause]

5670

06:10:39,890 --> 06:10:37,740

[Music]

5671

06:10:43,310 --> 06:10:39,900

okay that

5672

06:10:44,990 --> 06:10:43,320

so that will conclude this is Lolly so

5673

06:10:47,448 --> 06:10:45,000

what we're going to do is the rockets on

5674

06:10:50,270 --> 06:10:47,458

10 11 12. we're gonna move it into

5675

06:10:51,770 --> 06:10:50,280

volley number four and for those rockets

5676
06:10:54,230 --> 06:10:51,780
that have not flown you're gonna need

5677
06:10:56,208 --> 06:10:54,240
the new volley volley four so you can go

5678
06:10:58,368 --> 06:10:56,218
out and start to set up rockets for

5679
06:11:02,330 --> 06:10:58,378
those pads make sure you go through

5680
06:11:04,548 --> 06:11:02,340
your check-in you're so check-in and go

5681
06:11:06,350 --> 06:11:04,558
through the pad managers and then for

5682
06:11:08,448 --> 06:11:06,360
recovering Rockets you got to be outside

5683
06:11:18,788 --> 06:11:08,458
of the range to go get your rocket so

5684
06:11:24,490 --> 06:11:21,410
hey everyone welcome back here to our

5685
06:11:29,868 --> 06:11:27,410
just launched a number of rockets here

5686
06:11:31,670 --> 06:11:29,878
at Nasa student launch uh NASA student

5687
06:11:33,470 --> 06:11:31,680
launch is one of eight Artemis student

5688
06:11:35,990 --> 06:11:33,480

challenges that the agency hosts to

5689

06:11:38,628 --> 06:11:36,000

engage the next generation of Engineers

5690

06:11:41,090 --> 06:11:38,638

scientists explorers and NASA space

5691

06:11:42,650 --> 06:11:41,100

flight team members this is truly one of

5692

06:11:44,270 --> 06:11:42,660

the incredible ones coming up next

5693

06:11:46,368 --> 06:11:44,280

weekend Lane we have the human

5694

06:11:48,590 --> 06:11:46,378

exploration Rover challenge also hosted

5695

06:11:50,448 --> 06:11:48,600

here at Marshall space flight center but

5696

06:11:52,670 --> 06:11:50,458

bringing everything back down here to

5697

06:11:55,368 --> 06:11:52,680

home we have one more volley of rockets

5698

06:11:57,350 --> 06:11:55,378

coming before we do we have a really

5699

06:11:59,510 --> 06:11:57,360

special guest with us now don't we yes

5700

06:12:01,430 --> 06:11:59,520

absolutely we have a representative from

5701
06:12:03,350 --> 06:12:01,440
UNC Charlotte please introduce yourself

5702
06:12:04,970 --> 06:12:03,360
and tell us your major certainly my name

5703
06:12:06,830 --> 06:12:04,980
is Aaron Langhorne I am the Project Lead

5704
06:12:09,410 --> 06:12:06,840
for the 49er rocketry team and I'm a

5705
06:12:11,628 --> 06:12:09,420
mechanical engineering student okay so

5706
06:12:13,730 --> 06:12:11,638
as I understand it your school are the

5707
06:12:15,650 --> 06:12:13,740
reigning champions from last year and

5708
06:12:17,690 --> 06:12:15,660
the previous year in the previous year

5709
06:12:19,128 --> 06:12:17,700
yeah we are trying to bring it home for

5710
06:12:21,410 --> 06:12:19,138
a third time

5711
06:12:23,570 --> 06:12:21,420
um got big shoes to fill we got a good

5712
06:12:25,788 --> 06:12:23,580
team and support team behind us so we'll

5713
06:12:27,650 --> 06:12:25,798

see how it goes yeah absolutely so the

5714

06:12:29,510 --> 06:12:27,660

team this year no one was on a team last

5715

06:12:30,890 --> 06:12:29,520

year this is a fresh team this is

5716

06:12:33,170 --> 06:12:30,900

correct you have the rock tree team for

5717

06:12:34,730 --> 06:12:33,180

UNC Charlotte senior Capstone project so

5718

06:12:36,770 --> 06:12:34,740

every year we get a whole new fresh set

5719

06:12:38,690 --> 06:12:36,780

of people in to experience this project

5720

06:12:40,368 --> 06:12:38,700

for the first time yeah awesome so tell

5721

06:12:42,288 --> 06:12:40,378

me what challenges and difficulties have

5722

06:12:43,850 --> 06:12:42,298

you guys faced this year oh there's been

5723

06:12:46,788 --> 06:12:43,860

several um even from the beginning

5724

06:12:48,770 --> 06:12:46,798

working with a new team of

5725

06:12:50,448 --> 06:12:48,780

interdisciplinary engineering students

5726

06:12:52,430 --> 06:12:50,458

for the first time on such an intense

5727

06:12:54,288 --> 06:12:52,440

project getting a lot of that learning

5728

06:12:56,510 --> 06:12:54,298

curve out of the way as well the

5729

06:12:59,208 --> 06:12:56,520

documentation the learning curve that

5730

06:13:00,770 --> 06:12:59,218

comes with building a good story of ours

5731

06:13:02,628 --> 06:13:00,780

is our subscale launch one of our first

5732

06:13:04,610 --> 06:13:02,638

ones our parachute since deploy and we

5733

06:13:06,110 --> 06:13:04,620

ended up getting uh playing a game of

5734

06:13:08,030 --> 06:13:06,120

lawn darts with it for a little bit so

5735

06:13:10,010 --> 06:13:08,040

it was a good learning experience yeah

5736

06:13:12,230 --> 06:13:10,020

of course so what advice would you give

5737

06:13:13,788 --> 06:13:12,240

a person who's new to student launch or

5738

06:13:15,650 --> 06:13:13,798

a team that's new

5739

06:13:18,590 --> 06:13:15,660

the biggest advice I could give is try

5740

06:13:20,390 --> 06:13:18,600

to take up a personal project maybe not

5741

06:13:22,310 --> 06:13:20,400

exactly a kit rocket but design a

5742

06:13:25,128 --> 06:13:22,320

high-powered level one rocket get a lot

5743

06:13:26,628 --> 06:13:25,138

of that early knowledge rocket science

5744

06:13:28,070 --> 06:13:26,638

out of the way get some of that learning

5745

06:13:29,448 --> 06:13:28,080

curve so if you're interested in student

5746

06:13:32,270 --> 06:13:29,458

launch you can hit the ground running

5747

06:13:34,310 --> 06:13:32,280

more so and be more familiar with

5748

06:13:36,770 --> 06:13:34,320

everything going on awesome so earlier

5749

06:13:39,048 --> 06:13:36,780

you were telling me that actually unc's

5750

06:13:40,368 --> 06:13:39,058

rocketry team kind of attracted you to

5751
06:13:42,350 --> 06:13:40,378
that school can you tell me more about

5752
06:13:44,208 --> 06:13:42,360
that certainly I was a touring the

5753
06:13:45,530 --> 06:13:44,218
college I was looking around and I

5754
06:13:47,150 --> 06:13:45,540
happened to run into one of the alumni

5755
06:13:48,948 --> 06:13:47,160
from the rocketry team and they were

5756
06:13:51,350 --> 06:13:48,958
telling me how they compete Across the

5757
06:13:52,850 --> 06:13:51,360
Nation with you know 30 40 50 plus

5758
06:13:55,250 --> 06:13:52,860
colleges and they've always placed top

5759
06:13:58,970 --> 06:13:55,260
three and it turned out for last year

5760
06:14:01,368 --> 06:13:58,980
2021 2022 and 2020 2021 we ended up

5761
06:14:02,750 --> 06:14:01,378
coming first place and as I started

5762
06:14:04,010 --> 06:14:02,760
learning more about the project seeing

5763
06:14:05,628 --> 06:14:04,020

what they did they kind of experienced

5764

06:14:07,250 --> 06:14:05,638

the connections they made it just

5765

06:14:10,250 --> 06:14:07,260

attracted me immediately to join the

5766

06:14:11,690 --> 06:14:10,260

university and the team yeah is there

5767

06:14:14,090 --> 06:14:11,700

anyone you want to thank or shout out

5768

06:14:15,288 --> 06:14:14,100

today certainly I would of course would

5769

06:14:17,270 --> 06:14:15,298

love to thank our sponsors we have

5770

06:14:19,250 --> 06:14:17,280

averna we have the North Carolina space

5771

06:14:20,930 --> 06:14:19,260

Grant we also have all of our

5772

06:14:22,490 --> 06:14:20,940

crowdfunding supporters that make our

5773

06:14:24,190 --> 06:14:22,500

competition possible and allow us to be

5774

06:14:26,868 --> 06:14:24,200

as successful as we are

5775

06:14:28,430 --> 06:14:26,878

our whole alumni staff and our faculty

5776

06:14:30,410 --> 06:14:28,440

Mentor that stand behind us and I

5777

06:14:32,330 --> 06:14:30,420

supported us every step of the way and

5778

06:14:33,470 --> 06:14:32,340

most of all just the team they put in a

5779

06:14:35,510 --> 06:14:33,480

ton of work this year and it's been

5780

06:14:37,190 --> 06:14:35,520

paying off so far

5781

06:14:39,170 --> 06:14:37,200

thank you so much for talking with us

5782

06:14:41,448 --> 06:14:39,180

and good luck on your launch today thank

5783

06:14:43,368 --> 06:14:41,458

you thanks all right well who do we have

5784

06:14:45,470 --> 06:14:43,378

next we have Whitney Young High School

5785

06:14:46,970 --> 06:14:45,480

always great to see UNCC have the Rainy

5786

06:14:48,470 --> 06:14:46,980

Champs in the house this is one of our

5787

06:14:50,570 --> 06:14:48,480

high school teams Whitney Young High

5788

06:14:52,190 --> 06:14:50,580

School from Chicago gentlemen tell me

5789

06:14:55,190 --> 06:14:52,200

your names and what year in school you

5790

06:14:57,590 --> 06:14:55,200

are I'm Dominic I'm a junior I'm Cameron

5791

06:14:59,628 --> 06:14:57,600

I'm a senior so what were your what were

5792

06:15:01,190 --> 06:14:59,638

your roles with this beautiful rocket

5793

06:15:02,990 --> 06:15:01,200

that we see here beside us um I was a

5794

06:15:05,410 --> 06:15:03,000

payload officer I worked on this beauty

5795

06:15:07,430 --> 06:15:05,420

you see right here and I'm the team lead

5796

06:15:08,990 --> 06:15:07,440

excellent so let's talk about the

5797

06:15:10,490 --> 06:15:09,000

payload you have it here in your hands

5798

06:15:11,810 --> 06:15:10,500

let's take a look at that tell us what

5799

06:15:13,910 --> 06:15:11,820

your experiment is because you guys

5800

06:15:15,350 --> 06:15:13,920

didn't have to choose to do the college

5801

06:15:17,690 --> 06:15:15,360

um one you could come up with your own

5802

06:15:19,788 --> 06:15:17,700

Innovative creation uh what did you come

5803

06:15:22,250 --> 06:15:19,798

up with so we actually decided to pursue

5804

06:15:24,530 --> 06:15:22,260

the college requirements so you'll see a

5805

06:15:26,090 --> 06:15:24,540

camera on here that will extend outward

5806

06:15:28,010 --> 06:15:26,100

and take pictures of the surrounding

5807

06:15:30,410 --> 06:15:28,020

areas we really wanted to challenge

5808

06:15:33,048 --> 06:15:30,420

ourselves and to kind of prove to

5809

06:15:35,330 --> 06:15:33,058

ourselves that we're on that same level

5810

06:15:37,670 --> 06:15:35,340

and that we have the capabilities to do

5811

06:15:38,930 --> 06:15:37,680

amazing things so you flew earlier today

5812

06:15:41,990 --> 06:15:38,940

how did it go

5813

06:15:44,930 --> 06:15:42,000

uh yeah so we actually had uh the main

5814

06:15:45,890 --> 06:15:44,940

deployment at uh apogee so we had a long

5815

06:15:48,530 --> 06:15:45,900

walk

5816

06:15:50,030 --> 06:15:48,540

um but thankfully uh if anything goes

5817

06:15:51,170 --> 06:15:50,040

wrong with a rocket this is what you

5818

06:15:53,208 --> 06:15:51,180

want to have go wrong right anything

5819

06:15:55,070 --> 06:15:53,218

else would you know your rocket being in

5820

06:15:57,350 --> 06:15:55,080

pieces on the ground so you know I'll

5821

06:15:59,510 --> 06:15:57,360

take a long walk over that yeah yeah I

5822

06:16:02,510 --> 06:15:59,520

mean he certainly had a soft set a soft

5823

06:16:04,128 --> 06:16:02,520

touchdown there at the end of it so you

5824

06:16:05,510 --> 06:16:04,138

guys took on the high school Channel or

5825

06:16:08,150 --> 06:16:05,520

took on the college challenge rather

5826

06:16:09,770 --> 06:16:08,160

excuse me and I understand you guys have

5827

06:16:11,448 --> 06:16:09,780

been competing in student launch the

5828

06:16:13,128 --> 06:16:11,458

last few years but this is your first

5829

06:16:14,868 --> 06:16:13,138

time actually being able to come back to

5830

06:16:17,390 --> 06:16:14,878

Huntsville what has this experience been

5831

06:16:18,948 --> 06:16:17,400

like for you so it's actually a really

5832

06:16:20,628 --> 06:16:18,958

great experience

5833

06:16:22,070 --> 06:16:20,638

um especially to be a part of the

5834

06:16:23,990 --> 06:16:22,080

program for so many years and then never

5835

06:16:25,730 --> 06:16:24,000

really get to realize

5836

06:16:27,548 --> 06:16:25,740

um your fruits the fruits of your labor

5837

06:16:29,750 --> 06:16:27,558

the fruits of these last nine months

5838

06:16:31,128 --> 06:16:29,760

at the actual competition with all this

5839

06:16:32,810 --> 06:16:31,138

like electric environment with all these

5840

06:16:35,510 --> 06:16:32,820

different teams so it's really great to

5841

06:16:37,730 --> 06:16:35,520

be here excellent so I can't get my eyes

5842

06:16:39,470 --> 06:16:37,740

off of this awesome paint job tell us

5843

06:16:41,750 --> 06:16:39,480

about the paint job and I'm guessing

5844

06:16:43,310 --> 06:16:41,760

your Rocket's called pixel

5845

06:16:45,830 --> 06:16:43,320

um our rocket is actually called the Red

5846

06:16:48,590 --> 06:16:45,840

Rider the pixel refers to our payload

5847

06:16:51,170 --> 06:16:48,600

but our Mentor was actually able to get

5848

06:16:53,330 --> 06:16:51,180

us this wonderful paint job and I mean

5849

06:16:56,208 --> 06:16:53,340

it's something to behold every single

5850

06:16:58,850 --> 06:16:56,218

time that I see it yeah so it actually

5851

06:17:01,430 --> 06:16:58,860

matches up with a lot of our sponsors

5852

06:17:02,810 --> 06:17:01,440

um that we have here and

5853

06:17:04,368 --> 06:17:02,820

um overall we thought of something

5854

06:17:07,548 --> 06:17:04,378

unique to do

5855

06:17:08,868 --> 06:17:07,558

um and Red Rider actually comes from the

5856

06:17:09,548 --> 06:17:08,878

tricycles

5857

06:17:12,470 --> 06:17:09,558

um

5858

06:17:14,270 --> 06:17:12,480

yes that we all enjoyed as a little kid

5859

06:17:16,310 --> 06:17:14,280

um so yeah it's really really creative

5860

06:17:18,590 --> 06:17:16,320

stuff excellent so now I know you're

5861

06:17:20,030 --> 06:17:18,600

seeing your what's up next for you

5862

06:17:23,270 --> 06:17:20,040

um I'm thinking that I'm gonna continue

5863

06:17:24,770 --> 06:17:23,280

SLI in college doing Us Alive obviously

5864

06:17:25,788 --> 06:17:24,780

um I don't know where yet but I know

5865

06:17:27,470 --> 06:17:25,798

it's going to be somewhere with the

5866

06:17:29,208 --> 06:17:27,480

uslai after talking these great colleges

5867

06:17:30,350 --> 06:17:29,218

here well that's awesome we're so

5868

06:17:32,090 --> 06:17:30,360

excited for you one last question

5869

06:17:34,128 --> 06:17:32,100

anybody back home you want to say hi to

5870

06:17:36,830 --> 06:17:34,138

anybody want to give a shout out to

5871

06:17:39,470 --> 06:17:36,840

um hi to my family mom and dad thank you

5872

06:17:41,510 --> 06:17:39,480

so much for all the support and all of

5873

06:17:42,530 --> 06:17:41,520

the time I've spent on weekends long

5874

06:17:44,208 --> 06:17:42,540

nights

5875

06:17:45,410 --> 06:17:44,218

um being able to pick me up really

5876

06:17:47,510 --> 06:17:45,420

appreciate it

5877

06:17:49,190 --> 06:17:47,520

hey Mom hey Adrian

5878

06:17:51,708 --> 06:17:49,200

um thanks for the support of these last

5879

06:17:53,750 --> 06:17:51,718

nine months and uh thanks for support

5880

06:17:55,850 --> 06:17:53,760

what's to come and to all the families

5881

06:17:58,310 --> 06:17:55,860

out there it truly pays off as you heard

5882

06:18:00,288 --> 06:17:58,320

during the launches many team members go

5883

06:18:02,570 --> 06:18:00,298

on from student launch usli student

5884

06:18:04,070 --> 06:18:02,580

launch to work for NASA and in the space

5885

06:18:05,510 --> 06:18:04,080

flight industry Whitney Young High

5886

06:18:07,128 --> 06:18:05,520

School gentlemen thank you so much for

5887

06:18:09,830 --> 06:18:07,138

joining us today thrilled that you have

5888

06:18:11,208 --> 06:18:09,840

a rocket safely in one piece and we look

5889

06:18:13,190 --> 06:18:11,218

forward to seeing what's next with y'all

5890

06:18:14,930 --> 06:18:13,200

thank you absolutely

5891

06:18:17,510 --> 06:18:14,940

now we're going to bring Lane back in

5892

06:18:19,730 --> 06:18:17,520

Lane what's going on we've got another

5893

06:18:21,650 --> 06:18:19,740

team to talk to got another team another

5894

06:18:24,230 --> 06:18:21,660

group of high schoolers which is super

5895

06:18:26,570 --> 06:18:24,240

exciting hey guys how's it going your

5896

06:18:28,070 --> 06:18:26,580

team is math Mania correct okay so

5897

06:18:29,990 --> 06:18:28,080

please introduce yourself and tell us

5898

06:18:32,750 --> 06:18:30,000

you're you're in school okay my name is

5899

06:18:34,910 --> 06:18:32,760

Jasmine Killian um I'm a junior and I go

5900

06:18:37,250 --> 06:18:34,920

to Francis Parker my name is Bart

5901

06:18:39,048 --> 06:18:37,260

solanki and I'm a senior at Trabuco

5902

06:18:40,910 --> 06:18:39,058

Hills High School okay awesome so from

5903

06:18:43,190 --> 06:18:40,920

my understanding you guys come from

5904

06:18:44,628 --> 06:18:43,200

a handful of different schools so how

5905

06:18:46,490 --> 06:18:44,638

has that been navigating come coming

5906

06:18:48,770 --> 06:18:46,500

from different schools it's been really

5907

06:18:51,230 --> 06:18:48,780

hard especially since like a lot of us

5908

06:18:54,230 --> 06:18:51,240

live two hours apart from each other so

5909

06:18:57,170 --> 06:18:54,240

scheduling workshops and launches and

5910

06:18:58,970 --> 06:18:57,180

carpool it's it's been it's been kind of

5911

06:19:02,030 --> 06:18:58,980

tough yeah of course have you guys

5912

06:19:05,090 --> 06:19:02,040

launched today or had the launch go it

5913

06:19:07,970 --> 06:19:05,100

went good from what we can see we had

5914

06:19:09,708 --> 06:19:07,980

drogue and Maine and yeah it's awesome

5915

06:19:12,110 --> 06:19:09,718

good to hear the flight looked almost

5916

06:19:14,030 --> 06:19:12,120

perfect uh now we just hope that our

5917

06:19:15,350 --> 06:19:14,040

payload worked exactly as we wanted yeah

5918

06:19:17,448 --> 06:19:15,360

so tell me a little bit more about your

5919

06:19:20,750 --> 06:19:17,458

payload okay so we're doing the

5920

06:19:24,230 --> 06:19:20,760

university Challenge and um so we have

5921

06:19:26,990 --> 06:19:24,240

an rc3 that detects Landing then we have

5922

06:19:29,750 --> 06:19:27,000

an RTL SDR dongle that receives the aprs

5923

06:19:30,830 --> 06:19:29,760

commands and the pie decodes it and then

5924

06:19:34,070 --> 06:19:30,840

we have

5925

06:19:36,230 --> 06:19:34,080

um our sleds rotate to so that the

5926

06:19:38,868 --> 06:19:36,240

cameras around the z-axis and then the

5927

06:19:40,548 --> 06:19:38,878

other stepper motor rotates it um and

5928

06:19:42,288 --> 06:19:40,558

does the filters and stuff okay awesome

5929

06:19:45,110 --> 06:19:42,298

did you guys have any like a special

5930

06:19:48,350 --> 06:19:45,120

name for your payload or your rocket

5931

06:19:50,628 --> 06:19:48,360

we kind of created a name today because

5932

06:19:52,670 --> 06:19:50,638

we needed to but we call we called it

5933

06:19:55,670 --> 06:19:52,680

the sled spinner because the sled spin

5934

06:19:58,670 --> 06:19:55,680

around to get the camera to the z-axis

5935

06:20:00,948 --> 06:19:58,680

uh for the uh payload challenge yeah

5936

06:20:02,150 --> 06:20:00,958

awesome so what advice would you give to

5937

06:20:04,430 --> 06:20:02,160

a new team or a new student

5938

06:20:06,410 --> 06:20:04,440

participating

5939

06:20:08,930 --> 06:20:06,420
you're gonna go through a lot of

5940

06:20:11,090 --> 06:20:08,940
challenges every thing's gonna

5941

06:20:14,030 --> 06:20:11,100
Something's Gonna go wrong at some point

5942

06:20:16,670 --> 06:20:14,040
or another even if it does go wrong just

5943

06:20:18,650 --> 06:20:16,680
push through it just keep trying no

5944

06:20:20,570 --> 06:20:18,660
matter what just keep trying to solve

5945

06:20:23,750 --> 06:20:20,580
that problem even if it isn't working

5946

06:20:25,310 --> 06:20:23,760
for like a day or two just go on to the

5947

06:20:28,070 --> 06:20:25,320
third day fourth day fifth day however

5948

06:20:30,288 --> 06:20:28,080
long it takes just try and get it to

5949

06:20:32,868 --> 06:20:30,298
work yes absolutely a recurring theme

5950

06:20:35,868 --> 06:20:32,878
again is perseverance and rocketry right

5951
06:20:38,510 --> 06:20:35,878
so how far was your practice launching

5952
06:20:40,970 --> 06:20:38,520
area from your schools

5953
06:20:43,610 --> 06:20:40,980
I guess it depends it's

5954
06:20:46,070 --> 06:20:43,620
it's about three to four hours drive

5955
06:20:48,350 --> 06:20:46,080
from uh depending whether we were in the

5956
06:20:49,970 --> 06:20:48,360
San Diego area or the Orange County area

5957
06:20:52,610 --> 06:20:49,980
in California but it was about a three

5958
06:20:53,868 --> 06:20:52,620
or four hour drive okay awesome so do

5959
06:20:55,250 --> 06:20:53,878
you guys want to give any shout outs or

5960
06:20:58,910 --> 06:20:55,260
any thank yous today

5961
06:21:01,128 --> 06:20:58,920
uh yeah so our Mentor John uh is in the

5962
06:21:04,010 --> 06:21:01,138
back over there but uh he and I actually

5963
06:21:05,810 --> 06:21:04,020

drove all the way from California so he

5964

06:21:09,170 --> 06:21:05,820

definitely spends a lot of time working

5965

06:21:11,510 --> 06:21:09,180

on us and he's he's done a lot for us so

5966

06:21:13,490 --> 06:21:11,520

John especially absolutely anybody else

5967

06:21:16,128 --> 06:21:13,500

we'd like to thank the parents for all

5968

06:21:17,990 --> 06:21:16,138

their support and help along the way and

5969

06:21:21,350 --> 06:21:18,000

then we'd also like to thank the people

5970

06:21:22,788 --> 06:21:21,360

in San Diego the people of Triple E for

5971

06:21:25,548 --> 06:21:22,798

all their support during the launches

5972

06:21:27,470 --> 06:21:25,558

and sponsors the sponsors yeah yeah

5973

06:21:30,288 --> 06:21:27,480

we're getting there

5974

06:21:32,090 --> 06:21:30,298

um we'd like to thank Solvay uh GTS

5975

06:21:34,970 --> 06:21:32,100

aerojet rocket dine and applied medical

5976

06:21:36,650 --> 06:21:34,980

and also mathemedia Robotics and steam

5977

06:21:38,510 --> 06:21:36,660

vocational Steamworks for their

5978

06:21:41,330 --> 06:21:38,520

different sponsorships and help during

5979

06:21:44,208 --> 06:21:41,340

our process with because this is quite

5980

06:21:46,190 --> 06:21:44,218

an expensive Endeavor yeah

5981

06:21:47,628 --> 06:21:46,200

awesome so congratulations on a

5982

06:21:49,010 --> 06:21:47,638

successful launch guys thank you so much

5983

06:21:51,470 --> 06:21:49,020

for talking with me and have a great

5984

06:21:53,448 --> 06:21:51,480

rest of your day thanks guys have a

5985

06:21:54,590 --> 06:21:53,458

great day all right well who do we got

5986

06:21:56,868 --> 06:21:54,600

next

5987

06:21:58,730 --> 06:21:56,878

plan of James Madison University you

5988

06:22:00,470 --> 06:21:58,740

probably recognize their rocket it was

5989

06:22:03,048 --> 06:22:00,480

Zeus number two it looked like the

5990

06:22:05,448 --> 06:22:03,058

number two pencil which I thought was so

5991

06:22:07,548 --> 06:22:05,458

cool to see out there so you guys

5992

06:22:09,048 --> 06:22:07,558

launched earlier tell us first tell us

5993

06:22:11,030 --> 06:22:09,058

your name and what your role in team was

5994

06:22:12,410 --> 06:22:11,040

hi my name is Matt Caulfield I'm the

5995

06:22:14,330 --> 06:22:12,420

project manager

5996

06:22:15,830 --> 06:22:14,340

um I help with the budget as well as

5997

06:22:17,510 --> 06:22:15,840

planning and scheduling

5998

06:22:19,730 --> 06:22:17,520

uh and I'm Tyler Emery and I'm the

5999

06:22:21,830 --> 06:22:19,740

recovery lead for the team so you guys

6000

06:22:24,650 --> 06:22:21,840

launched uh just a little bit ago how

6001
06:22:26,690 --> 06:22:24,660
did the flight go I went pretty well um

6002
06:22:28,070 --> 06:22:26,700
we had a nice recovery system everything

6003
06:22:29,150 --> 06:22:28,080
looked well

6004
06:22:32,208 --> 06:22:29,160
um as well as the payload system

6005
06:22:34,190 --> 06:22:32,218
operated as as intentional

6006
06:22:35,448 --> 06:22:34,200
yeah everything deployed uh absolutely

6007
06:22:38,270 --> 06:22:35,458
perfectly so we were really happy about

6008
06:22:39,590 --> 06:22:38,280
how it went excellent so now getting to

6009
06:22:41,448 --> 06:22:39,600
student launch and getting here to

6010
06:22:43,910 --> 06:22:41,458
Huntsville for the finale it's a lot of

6011
06:22:45,830 --> 06:22:43,920
work and some challenges along the way

6012
06:22:47,510 --> 06:22:45,840
we talked to off camera a little bit

6013
06:22:49,690 --> 06:22:47,520

about some of those challenges talk to

6014

06:22:52,788 --> 06:22:49,700

uh tell our viewers at home about those

6015

06:22:55,490 --> 06:22:52,798

yeah so uh essentially for our first

6016

06:22:57,350 --> 06:22:55,500

full-scale launch our rocket having to

6017

06:22:59,628 --> 06:22:57,360

land at the top of a very very tall tree

6018

06:23:01,548 --> 06:22:59,638

uh and that led to us having to cut down

6019

06:23:02,990 --> 06:23:01,558

that tree and then it landed into a

6020

06:23:04,610 --> 06:23:03,000

second tree and then we had to cut that

6021

06:23:06,230 --> 06:23:04,620

tree down as well

6022

06:23:08,170 --> 06:23:06,240

um and then it fell on the rocket and we

6023

06:23:10,310 --> 06:23:08,180

had to remanufacture a lot of our parts

6024

06:23:11,930 --> 06:23:10,320

so it was definitely a challenge to get

6025

06:23:14,208 --> 06:23:11,940

through that but we did it successfully

6026
06:23:16,010 --> 06:23:14,218
so how do you come back from something

6027
06:23:17,510 --> 06:23:16,020
like that because I can imagine it would

6028
06:23:19,970 --> 06:23:17,520
just be devastating

6029
06:23:22,128 --> 06:23:19,980
yeah I mean honestly it's just a lot of

6030
06:23:24,230 --> 06:23:22,138
hours in the lab I think a lot of

6031
06:23:25,850 --> 06:23:24,240
overtime and uh kind of just bringing

6032
06:23:27,530 --> 06:23:25,860
the team together and making sure that

6033
06:23:29,390 --> 06:23:27,540
we could get it done in time now you

6034
06:23:30,948 --> 06:23:29,400
talk about bringing the team together we

6035
06:23:34,070 --> 06:23:30,958
all know we've seen it throughout this

6036
06:23:35,330 --> 06:23:34,080
competition that camaraderie and bonding

6037
06:23:36,590 --> 06:23:35,340
is really important I understand you

6038
06:23:39,170 --> 06:23:36,600

guys have some really fun Traditions

6039

06:23:41,628 --> 06:23:39,180

right yeah no we love eating honey buns

6040

06:23:43,490 --> 06:23:41,638

every meeting especially coming to

6041

06:23:45,470 --> 06:23:43,500

launches it's so much fun get that

6042

06:23:47,390 --> 06:23:45,480

energy up yeah

6043

06:23:49,030 --> 06:23:47,400

now that's my kind of tradition can I

6044

06:23:51,170 --> 06:23:49,040

join the team

6045

06:23:52,250 --> 06:23:51,180

any other cool Traditions that you guys

6046

06:23:53,090 --> 06:23:52,260

do

6047

06:23:54,708 --> 06:23:53,100

um

6048

06:23:56,810 --> 06:23:54,718

I think honey buns really are the the

6049

06:23:59,208 --> 06:23:56,820

best tradition this team has I stick by

6050

06:24:00,890 --> 06:23:59,218

the honey bun tradition so excellent now

6051

06:24:02,270 --> 06:24:00,900

last question for you all is there

6052

06:24:03,770 --> 06:24:02,280

anybody back home you want to say hi to

6053

06:24:05,150 --> 06:24:03,780

any sponsors you want to thank back that

6054

06:24:06,708 --> 06:24:05,160

made you made it possible for you guys

6055

06:24:08,208 --> 06:24:06,718

to be here yeah we want to thank

6056

06:24:10,910 --> 06:24:08,218

Northrop Grumman as well as the Virginia

6057

06:24:13,310 --> 06:24:10,920

space Grant um consentorium for allowing

6058

06:24:15,410 --> 06:24:13,320

us to um to have sponsorship for this

6059

06:24:17,868 --> 06:24:15,420

project as well as all of our mentors Dr

6060

06:24:22,788 --> 06:24:17,878

J noggles Dr Holland and especially our

6061

06:24:25,670 --> 06:24:22,798

Mentor uh Mr Chuck Neff he's amazing

6062

06:24:28,788 --> 06:24:27,230

well there it is James Madison

6063

06:24:31,190 --> 06:24:28,798

University their student launch Team

6064

06:24:33,230 --> 06:24:31,200

their rocket was a pencil and they were

6065

06:24:35,570 --> 06:24:33,240

rewriting the history books for student

6066

06:24:37,250 --> 06:24:35,580

launch at James Madison so we're going

6067

06:24:39,530 --> 06:24:37,260

to bring Lane back in talk to our next

6068

06:24:41,690 --> 06:24:39,540

team guys thank you so much wish you the

6069

06:24:44,990 --> 06:24:41,700

best of luck uh with the final reporting

6070

06:24:48,530 --> 06:24:46,610

well

6071

06:24:49,670 --> 06:24:48,540

have another high school team joining us

6072

06:24:52,010 --> 06:24:49,680

today

6073

06:24:54,830 --> 06:24:52,020

hey guys how's it going

6074

06:24:56,750 --> 06:24:54,840

who is your team spokesperson you okay

6075

06:24:58,190 --> 06:24:56,760

please introduce yourself tell us what

6076
06:25:00,650 --> 06:24:58,200
school you're from and what year you are

6077
06:25:02,390 --> 06:25:00,660
I'm Maddie tuning we're from Yamhill

6078
06:25:04,910 --> 06:25:02,400
Carlton high school and I'm a junior

6079
06:25:07,010 --> 06:25:04,920
okay where are you guys from uh Yamhill

6080
06:25:10,070 --> 06:25:07,020
Oregon okay awesome how'd the launch go

6081
06:25:11,570 --> 06:25:10,080
today uh we were very successful yeah so

6082
06:25:13,190 --> 06:25:11,580
great to hear so tell me about the

6083
06:25:15,770 --> 06:25:13,200
design of your rocket I love this purple

6084
06:25:17,990 --> 06:25:15,780
and green situation going on uh so we

6085
06:25:19,788 --> 06:25:18,000
went with the green just because we were

6086
06:25:21,890 --> 06:25:19,798
dispersing seeds so it kind of fit with

6087
06:25:24,410 --> 06:25:21,900
the color there and then we really like

6088
06:25:27,230 --> 06:25:24,420

the purple so we went with purple sounds

6089

06:25:29,330 --> 06:25:27,240

good so tell me about your payload so we

6090

06:25:31,610 --> 06:25:29,340

have a seed disbursement system where it

6091

06:25:34,190 --> 06:25:31,620

starts in the air in the nose cone with

6092

06:25:36,590 --> 06:25:34,200

airflow and then it spins up a fan that

6093

06:25:39,548 --> 06:25:36,600

disperses the seeds at motor burnout

6094

06:25:42,230 --> 06:25:39,558

okay so as the rocket is launching air

6095

06:25:44,390 --> 06:25:42,240

basically Powers the payload yes that's

6096

06:25:46,190 --> 06:25:44,400

super cool so what challenges is you

6097

06:25:48,350 --> 06:25:46,200

guys have to overcome this year uh we

6098

06:25:50,510 --> 06:25:48,360

had some recovery issues

6099

06:25:52,010 --> 06:25:50,520

um our payload wasn't working and we

6100

06:25:55,190 --> 06:25:52,020

were able to fix it under 24 hours

6101
06:25:57,110 --> 06:25:55,200
before the launch so we have adapted

6102
06:25:58,610 --> 06:25:57,120
very well yes absolutely and making

6103
06:26:00,708 --> 06:25:58,620
those last minute changes can be super

6104
06:26:02,090 --> 06:26:00,718
hard so how many years have you guys

6105
06:26:04,190 --> 06:26:02,100
competed in this competition or your

6106
06:26:06,590 --> 06:26:04,200
school this is our second year here so

6107
06:26:08,690 --> 06:26:06,600
most of us are second years there's a

6108
06:26:10,190 --> 06:26:08,700
couple First Years okay so what advice

6109
06:26:11,390 --> 06:26:10,200
would you give a new team or a new

6110
06:26:14,270 --> 06:26:11,400
student

6111
06:26:16,010 --> 06:26:14,280
uh I would say we're together we're a

6112
06:26:17,448 --> 06:26:16,020
family and it's we've come a long way

6113
06:26:18,708 --> 06:26:17,458

and I think we've all gotten to know

6114

06:26:21,350 --> 06:26:18,718

each other really well

6115

06:26:22,850 --> 06:26:21,360

so how far is the the location where you

6116

06:26:24,470 --> 06:26:22,860

guys practice your launches how far is

6117

06:26:29,690 --> 06:26:24,480

that from your school

6118

06:26:32,930 --> 06:26:31,310

finding a lot of teams have to travel

6119

06:26:35,448 --> 06:26:32,940

really far so that adds another layer of

6120

06:26:36,470 --> 06:26:35,458

challenges of course right so do you

6121

06:26:37,910 --> 06:26:36,480

guys have anyone you want to shout out

6122

06:26:39,410 --> 06:26:37,920

or think today

6123

06:26:41,510 --> 06:26:39,420

um we would like to shout out the walk

6124

06:26:45,350 --> 06:26:41,520

in the park Foundation kenwright Sellers

6125

06:26:47,208 --> 06:26:45,360

and Willow Springs Auto and Paint okay

6126
06:26:48,770 --> 06:26:47,218
awesome thank you guys so much for

6127
06:26:50,930 --> 06:26:48,780
talking to me today with me today

6128
06:26:52,430 --> 06:26:50,940
congratulations on a great launch and

6129
06:26:54,590 --> 06:26:52,440
have a great rest of your day thank you

6130
06:26:56,750 --> 06:26:54,600
thank you

6131
06:26:59,570 --> 06:26:56,760
okay well who do we have next joining us

6132
06:27:00,830 --> 06:26:59,580
yeah Elaine I love once again I love

6133
06:27:02,570 --> 06:27:00,840
seeing these high school teams that

6134
06:27:05,208 --> 06:27:02,580
payload I mean the rocket looks like

6135
06:27:07,310 --> 06:27:05,218
that payload the seed dispersion that's

6136
06:27:08,990 --> 06:27:07,320
just cool maybe uh maybe we should go

6137
06:27:10,548 --> 06:27:09,000
plant some seeds using their Rockets oh

6138
06:27:12,590 --> 06:27:10,558

yeah that sounds great and I want to

6139

06:27:13,850 --> 06:27:12,600

bring up you know the the college teams

6140

06:27:15,048 --> 06:27:13,860

have certain requirements they have to

6141

06:27:16,670 --> 06:27:15,058

meet for their payloads and high

6142

06:27:18,110 --> 06:27:16,680

schoolers have kind of more freedom they

6143

06:27:20,810 --> 06:27:18,120

can choose whatever science or

6144

06:27:22,128 --> 06:27:20,820

technology technology experiment they

6145

06:27:23,570 --> 06:27:22,138

want to do so it's really cool to hear

6146

06:27:25,070 --> 06:27:23,580

that that's the route they went it's

6147

06:27:27,110 --> 06:27:25,080

always interesting to see what the Young

6148

06:27:29,208 --> 06:27:27,120

Minds come up with it makes me feel a

6149

06:27:30,890 --> 06:27:29,218

lot better about the future of our space

6150

06:27:32,570 --> 06:27:30,900

flight industry knowing we have

6151
06:27:35,690 --> 06:27:32,580
Brilliant Minds like that absolutely

6152
06:27:37,548 --> 06:27:35,700
right yes absolutely Innovative and

6153
06:27:40,430 --> 06:27:37,558
awesome looking stuff we have Oregon

6154
06:27:43,850 --> 06:27:40,440
State University y'all come on in

6155
06:27:45,350 --> 06:27:43,860
this beautiful rocket beside us tell us

6156
06:27:47,810 --> 06:27:45,360
your name and what your role on the team

6157
06:27:50,628 --> 06:27:47,820
is uh so my name is Jacob Justin Colton

6158
06:27:53,330 --> 06:27:50,638
everyone calls me JJ uh and I am the

6159
06:27:54,770 --> 06:27:53,340
team captain of the Oregon State usli so

6160
06:27:57,350 --> 06:27:54,780
you guys flew earlier how did the flight

6161
06:27:59,510 --> 06:27:57,360
go uh the flight actually went amazingly

6162
06:28:02,390 --> 06:27:59,520
uh our rocket is called Overkill because

6163
06:28:04,128 --> 06:28:02,400

we over designed it all so thankfully uh

6164

06:28:06,650 --> 06:28:04,138

it lived up to its name now speaking of

6165

06:28:09,288 --> 06:28:06,660

design it's a beautiful paint job tell

6166

06:28:10,610 --> 06:28:09,298

us about what went into that so it also

6167

06:28:12,590 --> 06:28:10,620

had the benefit of unintentionally

6168

06:28:14,330 --> 06:28:12,600

matching our shirts but we did a stem

6169

06:28:16,010 --> 06:28:14,340

engagement event back in Oregon at the

6170

06:28:18,650 --> 06:28:16,020

Oregon Museum of Science and Industry

6171

06:28:20,750 --> 06:28:18,660

and we asked for a bunch of kids to come

6172

06:28:22,910 --> 06:28:20,760

and design our rocket and we voted on

6173

06:28:25,548 --> 06:28:22,920

the winner we had about 250 to 280

6174

06:28:27,830 --> 06:28:25,558

submissions and we voted on the winner

6175

06:28:30,890 --> 06:28:27,840

and the winner was Miss Alice so thank

6176
06:28:32,810 --> 06:28:30,900
you so hi in this Alice uh beautiful

6177
06:28:34,430 --> 06:28:32,820
rocket that you design and for everybody

6178
06:28:36,288 --> 06:28:34,440
back home stem engagement is one of the

6179
06:28:38,030 --> 06:28:36,298
key requirements Ford NASA student

6180
06:28:40,730 --> 06:28:38,040
launch so great that you guys were able

6181
06:28:41,810 --> 06:28:40,740
to to do that now understand that you

6182
06:28:44,868 --> 06:28:41,820
guys are starting we talk about

6183
06:28:46,250 --> 06:28:44,878
Traditions NASA we are deep in with our

6184
06:28:48,288 --> 06:28:46,260
Traditions I understand you guys have a

6185
06:28:50,990 --> 06:28:48,298
new one you're starting this year yeah

6186
06:28:53,150 --> 06:28:51,000
so we actually uh we kind of wanted to

6187
06:28:54,770 --> 06:28:53,160
stand out more and it became uh kind of

6188
06:28:56,090 --> 06:28:54,780

when I would get to meetings I would

6189

06:28:58,670 --> 06:28:56,100

always wear a Hawaiian shirt and be like

6190

06:29:00,170 --> 06:28:58,680

the dad of the team and so we made a

6191

06:29:01,548 --> 06:29:00,180

joke that we should wear Hawaiian shirts

6192

06:29:02,868 --> 06:29:01,558

for the launch and you know what we

6193

06:29:04,730 --> 06:29:02,878

ended up doing it if you noticed even

6194

06:29:08,030 --> 06:29:04,740

has our logo on it and our patch on the

6195

06:29:09,770 --> 06:29:08,040

uh the chest here oh that's so cool

6196

06:29:11,330 --> 06:29:09,780

um well so tell us about the payload

6197

06:29:13,368 --> 06:29:11,340

Challenge and how you guys undertook

6198

06:29:15,470 --> 06:29:13,378

that that really challenging

6199

06:29:17,810 --> 06:29:15,480

um obstacle that we put in front of you

6200

06:29:19,910 --> 06:29:17,820

yeah so the challenge certainly had a

6201
06:29:21,948 --> 06:29:19,920
lot of avenues to go down we ended up

6202
06:29:23,810 --> 06:29:21,958
trying to go down the one that allowed

6203
06:29:25,368 --> 06:29:23,820
us to use gravity more to our side than

6204
06:29:27,530 --> 06:29:25,378
making more complicated Mechanical

6205
06:29:29,330 --> 06:29:27,540
Devices so our payload is actually

6206
06:29:31,490 --> 06:29:29,340
called the goop or the gravity operated

6207
06:29:33,110 --> 06:29:31,500
oblong payload and it's housed in the

6208
06:29:35,390 --> 06:29:33,120
nose cone there so

6209
06:29:37,070 --> 06:29:35,400
if you've ever seen a Weeble wobble uh

6210
06:29:38,510 --> 06:29:37,080
you know you push it over and it comes

6211
06:29:39,890 --> 06:29:38,520
back up that's essentially what our

6212
06:29:42,048 --> 06:29:39,900
design is and it just has a camera that

6213
06:29:43,788 --> 06:29:42,058

Springs right out oh that's awesome so

6214

06:29:46,250 --> 06:29:43,798

you're using gravity using the basic

6215

06:29:48,288 --> 06:29:46,260

principles of physics uh to make your

6216

06:29:50,150 --> 06:29:48,298

payload even easier anybody back home

6217

06:29:52,548 --> 06:29:50,160

any sponsors any professors anybody you

6218

06:29:54,470 --> 06:29:52,558

want to say hi to uh I would like to say

6219

06:29:56,030 --> 06:29:54,480

hi to my family who drove the rocket

6220

06:29:58,128 --> 06:29:56,040

down here we wouldn't have done it

6221

06:30:00,708 --> 06:29:58,138

without them it was 40 hour drive so

6222

06:30:02,930 --> 06:30:00,718

thank you Mom and Dad I love you and

6223

06:30:04,970 --> 06:30:02,940

thank you to the Corvallis community and

6224

06:30:06,708 --> 06:30:04,980

Estacada community and all of Oregon in

6225

06:30:08,090 --> 06:30:06,718

general we didn't really get to bring

6226
06:30:09,230 --> 06:30:08,100
all of Oregon with us but we brought the

6227
06:30:11,690 --> 06:30:09,240
community in the rocket and with our

6228
06:30:14,150 --> 06:30:11,700
spirit man that just gave me goosebumps

6229
06:30:16,128 --> 06:30:14,160
that's so cool so hello to everyone in

6230
06:30:18,890 --> 06:30:16,138
Oregon out there in Pacific Northwest

6231
06:30:20,750 --> 06:30:18,900
taking care of our Rockets our future of

6232
06:30:23,750 --> 06:30:20,760
our space flight industry wearing good

6233
06:30:25,368 --> 06:30:23,760
hands with teams like Oregon State uh so

6234
06:30:26,570 --> 06:30:25,378
congratulations and we look forward to

6235
06:30:28,490 --> 06:30:26,580
seeing how the rest of the competition

6236
06:30:31,788 --> 06:30:28,500
goes for you all thank you so much that

6237
06:30:34,548 --> 06:30:31,798
is Oregon State the Beavers coming down

6238
06:30:36,230 --> 06:30:34,558

here a 40-hour drive

6239

06:30:37,788 --> 06:30:36,240

so Lane

6240

06:30:38,750 --> 06:30:37,798

we have another team that we get to talk

6241

06:30:42,288 --> 06:30:38,760

to

6242

06:30:46,788 --> 06:30:44,990

so here they come they had the corn

6243

06:30:48,288 --> 06:30:46,798

rocket which we've been promoting on

6244

06:30:50,750 --> 06:30:48,298

social media so make sure to follow us

6245

06:30:52,070 --> 06:30:50,760

there as well but hi please introduce

6246

06:30:55,128 --> 06:30:52,080

yourself and tell us your year in school

6247

06:30:56,628 --> 06:30:55,138

my name is Annie Roark I'm a senior

6248

06:30:59,208 --> 06:30:56,638

mechanical engineering major from

6249

06:31:01,490 --> 06:30:59,218

Cedarville University awesome so how'd

6250

06:31:04,010 --> 06:31:01,500

the launch go today overall we think it

6251
06:31:06,590 --> 06:31:04,020
went pretty well we had good asson both

6252
06:31:08,810 --> 06:31:06,600
our recovery events were successful we

6253
06:31:10,670 --> 06:31:08,820
had a couple issues on the landing just

6254
06:31:12,830 --> 06:31:10,680
our parachute's so big we're banging

6255
06:31:15,470 --> 06:31:12,840
around but really happy with our

6256
06:31:17,090 --> 06:31:15,480
recovery so yeah that's great so what

6257
06:31:19,548 --> 06:31:17,100
are you most proud of about your rocket

6258
06:31:22,310 --> 06:31:19,558
I think you know we're we're a small

6259
06:31:23,990 --> 06:31:22,320
Christian School and this is our senior

6260
06:31:25,850 --> 06:31:24,000
design project so none of us have ever

6261
06:31:27,788 --> 06:31:25,860
competed in this before none of us

6262
06:31:30,288 --> 06:31:27,798
really have any experience with rocketry

6263
06:31:31,910 --> 06:31:30,298

we kind of came into the competition

6264

06:31:33,830 --> 06:31:31,920

with the mindset you know we're gonna

6265

06:31:35,810 --> 06:31:33,840

glorify God with all our work and just

6266

06:31:37,548 --> 06:31:35,820

do our best and I think we were able to

6267

06:31:38,628 --> 06:31:37,558

make something that we are really proud

6268

06:31:40,788 --> 06:31:38,638

of

6269

06:31:42,948 --> 06:31:40,798

um ultimately really successful we're

6270

06:31:44,330 --> 06:31:42,958

happy with our payload and just the way

6271

06:31:46,490 --> 06:31:44,340

that we were able to come together as a

6272

06:31:48,830 --> 06:31:46,500

team yeah absolutely so what advice

6273

06:31:51,530 --> 06:31:48,840

would you give to another team yeah I'd

6274

06:31:53,990 --> 06:31:51,540

say uh get connected with local rocketry

6275

06:31:55,910 --> 06:31:54,000

clubs ours is the rights of rocketeers

6276

06:31:59,030 --> 06:31:55,920

and they were awesome our Mentor Dave

6277

06:32:01,430 --> 06:31:59,040

taught us so much right off the bat we

6278

06:32:03,170 --> 06:32:01,440

put in a lot of long hours but it was so

6279

06:32:05,510 --> 06:32:03,180

worth it just learning basics of

6280

06:32:06,890 --> 06:32:05,520

rocketry and then you can really apply

6281

06:32:09,288 --> 06:32:06,900

some of your technical engineering

6282

06:32:11,330 --> 06:32:09,298

skills to make things really good yeah

6283

06:32:14,510 --> 06:32:11,340

so tell me about the decision to paint

6284

06:32:16,850 --> 06:32:14,520

it like corn yeah so Cedarville we're

6285

06:32:20,090 --> 06:32:16,860

from Cedarville Ohio that is Southwest

6286

06:32:23,390 --> 06:32:20,100

Ohio and we're in just a small town

6287

06:32:25,070 --> 06:32:23,400

surrounded by cornfields so we initially

6288

06:32:27,110 --> 06:32:25,080

were thinking we kind of wanted to paint

6289

06:32:29,810 --> 06:32:27,120

it pink but the boys didn't really like

6290

06:32:31,310 --> 06:32:29,820

that so we settled on corn well it kind

6291

06:32:33,170 --> 06:32:31,320

of fits in with the scenery around here

6292

06:32:35,090 --> 06:32:33,180

being in a farm environment so that was

6293

06:32:36,590 --> 06:32:35,100

kind of perfect is there anyone you want

6294

06:32:39,048 --> 06:32:36,600

to shout out or think today yeah

6295

06:32:41,390 --> 06:32:39,058

absolutely both are our professor

6296

06:32:44,208 --> 06:32:41,400

advisors Dr Ward here and and Dr

6297

06:32:46,368 --> 06:32:44,218

toonstra and just been so instrumental

6298

06:32:48,170 --> 06:32:46,378

in our success the rest of our

6299

06:32:51,170 --> 06:32:48,180

professors back at Cedarville we just

6300

06:32:52,788 --> 06:32:51,180

have amazing faculty our Mentor Dave

6301

06:32:54,948 --> 06:32:52,798

Dave Combs and the right stuff

6302

06:32:56,990 --> 06:32:54,958

rocketeers and just all our families and

6303

06:32:59,270 --> 06:32:57,000

obviously God who's given us all these

6304

06:33:01,010 --> 06:32:59,280

opportunities yeah awesome well congrats

6305

06:33:02,510 --> 06:33:01,020

on a successful launch today guys thank

6306

06:33:04,070 --> 06:33:02,520

you so much for talking with me and

6307

06:33:05,690 --> 06:33:04,080

enjoy the rest of your day thank you

6308

06:33:08,868 --> 06:33:05,700

thanks

6309

06:33:11,448 --> 06:33:08,878

okay well who we got next well so

6310

06:33:14,930 --> 06:33:11,458

perfect timing with the corn rocket we

6311

06:33:15,948 --> 06:33:14,940

have our 4-H team oh perfect so y'all

6312

06:33:17,810 --> 06:33:15,958

come on in

6313

06:33:19,310 --> 06:33:17,820

all right tell me your name and what

6314

06:33:22,070 --> 06:33:19,320

your role is here on the team my name is

6315

06:33:24,410 --> 06:33:22,080

Sean I'm uh the team captain uh we're

6316

06:33:26,868 --> 06:33:24,420

with Morris County 4-H we're really

6317

06:33:28,368 --> 06:33:26,878

happy to be here so now I'm gonna ask a

6318

06:33:29,930 --> 06:33:28,378

silly question where is Morris County

6319

06:33:31,010 --> 06:33:29,940

what state are you off from northern

6320

06:33:33,708 --> 06:33:31,020

Jersey

6321

06:33:35,628 --> 06:33:33,718

it's a far away from Alabama excellent

6322

06:33:37,310 --> 06:33:35,638

so what has this experience been like I

6323

06:33:38,990 --> 06:33:37,320

know being a 4-H club you're not a

6324

06:33:41,390 --> 06:33:39,000

typical high school team understand

6325

06:33:43,788 --> 06:33:41,400

multiple schools that you guys are go to

6326
06:33:45,410 --> 06:33:43,798
we all go to different schools uh even

6327
06:33:47,208 --> 06:33:45,420
different counties all across the state

6328
06:33:48,410 --> 06:33:47,218
some of us are several hours from each

6329
06:33:51,110 --> 06:33:48,420
other so

6330
06:33:53,390 --> 06:33:51,120
of a logistical nightmare but

6331
06:33:55,010 --> 06:33:53,400
we made it happen so what has this

6332
06:33:56,868 --> 06:33:55,020
experience been like for you and what's

6333
06:33:58,490 --> 06:33:56,878
been your favorite part I it's been

6334
06:34:00,170 --> 06:33:58,500
extremely difficult you know we're the

6335
06:34:02,150 --> 06:34:00,180
one of the smallest teams with just five

6336
06:34:04,368 --> 06:34:02,160
people that you see here

6337
06:34:05,990 --> 06:34:04,378
um getting all that worked in with

6338
06:34:08,150 --> 06:34:06,000

paperwork and all that it's very

6339

06:34:10,610 --> 06:34:08,160

difficult but uh it's been very fun

6340

06:34:12,530 --> 06:34:10,620

extremely rewarding uh we're very

6341

06:34:14,990 --> 06:34:12,540

grateful to all the student launch Team

6342

06:34:16,010 --> 06:34:15,000

for this frankly life-changing

6343

06:34:17,690 --> 06:34:16,020

experience

6344

06:34:19,190 --> 06:34:17,700

so have you had a chance to launch your

6345

06:34:21,530 --> 06:34:19,200

rocket yet are you in this out here on

6346

06:34:23,628 --> 06:34:21,540

the rails we're out there uh we're

6347

06:34:25,128 --> 06:34:23,638

flying in the fourth volley excellent

6348

06:34:26,990 --> 06:34:25,138

well they'll be coming up here shortly

6349

06:34:28,490 --> 06:34:27,000

last question for y'all is there anybody

6350

06:34:30,230 --> 06:34:28,500

back home you want to say hi to or give

6351
06:34:32,090 --> 06:34:30,240
a shout out to uh well we want to thank

6352
06:34:35,030 --> 06:34:32,100
our team mentors

6353
06:34:37,610 --> 06:34:35,040
um and of course our team's sponsors

6354
06:34:39,530 --> 06:34:37,620
right there uh but you know all our

6355
06:34:41,390 --> 06:34:39,540
family everyone in Morris County 4-H

6356
06:34:43,128 --> 06:34:41,400
they've been extremely supportive they

6357
06:34:45,948 --> 06:34:43,138
sent out a little Banner with us with

6358
06:34:47,628 --> 06:34:45,958
all signatures it was very nice thank

6359
06:34:49,430 --> 06:34:47,638
you to everyone well that's awesome and

6360
06:34:51,170 --> 06:34:49,440
you guys truly prove that it doesn't

6361
06:34:52,730 --> 06:34:51,180
matter what high school you're from or

6362
06:34:55,128 --> 06:34:52,740
anything like that if you have the will

6363
06:34:57,048 --> 06:34:55,138

and desire to make it work you're going

6364

06:34:59,110 --> 06:34:57,058

to congratulations for being here we

6365

06:35:03,410 --> 06:34:59,120

can't wait to see your rocket flying

6366

06:35:06,288 --> 06:35:03,420

that is the Morris County 4-H a truly

6367

06:35:08,390 --> 06:35:06,298

unique team from New Jersey five members

6368

06:35:11,208 --> 06:35:08,400

from across this great of New Jersey

6369

06:35:13,970 --> 06:35:11,218

here to join us Lane we talked to Army

6370

06:35:15,410 --> 06:35:13,980

earlier we got Naval Academy or we

6371

06:35:21,490 --> 06:35:15,420

talked to University United States

6372

06:35:26,030 --> 06:35:23,750

yeah so please introduce yourself and

6373

06:35:28,490 --> 06:35:26,040

tell us what you're studying in school

6374

06:35:30,650 --> 06:35:28,500

my name is uh Michigan First Class Lucas

6375

06:35:32,750 --> 06:35:30,660

Bly I'm studying aerospace engineering

6376

06:35:34,310 --> 06:35:32,760

at the U.S Naval Academy all right thank

6377

06:35:35,930 --> 06:35:34,320

you so what challenges and difficulties

6378

06:35:38,510 --> 06:35:35,940

did you guys face this year

6379

06:35:42,830 --> 06:35:38,520

yes we uh successfully overcame a number

6380

06:35:44,750 --> 06:35:42,840

of obstacles uh for example we overcame

6381

06:35:46,850 --> 06:35:44,760

a key challenge with our payload I'll

6382

06:35:49,310 --> 06:35:46,860

let my colleague midshipman first class

6383

06:35:51,530 --> 06:35:49,320

will megenson talk about the payload

6384

06:35:54,890 --> 06:35:51,540

okay yeah the pale was a major struggle

6385

06:35:56,570 --> 06:35:54,900

for us getting a package that would both

6386

06:35:59,270 --> 06:35:56,580

survive the landing and perform as

6387

06:36:02,330 --> 06:35:59,280

desired Ah that's a struggle it really

6388

06:36:04,490 --> 06:36:02,340

is we biggest problems came with airface

6389

06:36:06,830 --> 06:36:04,500

with the recovery system we had a lot of

6390

06:36:08,690 --> 06:36:06,840

parachute problems that required some uh

6391

06:36:11,570 --> 06:36:08,700

some harder Landings than anticipated

6392

06:36:13,788 --> 06:36:11,580

and that involves some damage to payload

6393

06:36:16,070 --> 06:36:13,798

so kind of working through that actually

6394

06:36:18,590 --> 06:36:16,080

I think it was two weeks ago on Sunday

6395

06:36:21,470 --> 06:36:18,600

we destroyed our payload on a no

6396

06:36:23,270 --> 06:36:21,480

parachute Landing so it was the week

6397

06:36:25,610 --> 06:36:23,280

before we came here was a rush to get

6398

06:36:27,830 --> 06:36:25,620

that rebuilt but just had a rally really

6399

06:36:29,750 --> 06:36:27,840

quickly huh yes ma'am so how many times

6400

06:36:33,410 --> 06:36:29,760

has the Naval Academy competed do you

6401
06:36:35,030 --> 06:36:33,420
know that uh I'm not sure but um it was

6402
06:36:37,128 --> 06:36:35,040
actually I want to give a shout out to

6403
06:36:38,690 --> 06:36:37,138
uh Lieutenant Friddle

6404
06:36:41,208 --> 06:36:38,700
um he's an officer at the Naval Academy

6405
06:36:44,270 --> 06:36:41,218
right now and when he was a first class

6406
06:36:46,850 --> 06:36:44,280
mid he uh revived the program so a big

6407
06:36:48,590 --> 06:36:46,860
shout out to Lieutenant His Four Horses

6408
06:36:51,048 --> 06:36:48,600
fertile that's his call sign awesome

6409
06:36:53,030 --> 06:36:51,058
just a quick thing if I may as a

6410
06:36:55,030 --> 06:36:53,040
midshipman will Magnuson was saying

6411
06:36:57,590 --> 06:36:55,040
leader of the payload team

6412
06:36:59,628 --> 06:36:57,600
just to give you an example it's a great

6413
06:37:02,090 --> 06:36:59,638

case in point with a payload how he

6414

06:37:03,948 --> 06:37:02,100

overcame that challenge we have a saying

6415

06:37:06,288 --> 06:37:03,958

on the team Diamonds Are Made Under

6416

06:37:08,090 --> 06:37:06,298

Pressure so just case some point right

6417

06:37:10,730 --> 06:37:08,100

there yeah I love that so how did the

6418

06:37:13,368 --> 06:37:10,740

launch go today we had a great great

6419

06:37:15,890 --> 06:37:13,378

boost looked great all the way up to the

6420

06:37:18,708 --> 06:37:15,900

sky so I come down here two shoots as we

6421

06:37:19,850 --> 06:37:18,718

expected so all good news there I

6422

06:37:22,070 --> 06:37:19,860

haven't got to fully go through the

6423

06:37:24,230 --> 06:37:22,080

payload results and the actual Landing

6424

06:37:25,310 --> 06:37:24,240

yet with the rest of the team and we're

6425

06:37:27,708 --> 06:37:25,320

excited to do that and see how

6426
06:37:29,208 --> 06:37:27,718
everything turned out yeah great so what

6427
06:37:31,610 --> 06:37:29,218
advice would you give other teams or

6428
06:37:34,490 --> 06:37:31,620
maybe new teams to student launch

6429
06:37:38,030 --> 06:37:34,500
I'd highly recommend it uh we all we're

6430
06:37:41,090 --> 06:37:38,040
a team of 13 and uh we all learned a lot

6431
06:37:44,208 --> 06:37:41,100
had a lot of fun and a big shout out to

6432
06:37:46,910 --> 06:37:44,218
a professor professor Tony and our team

6433
06:37:49,368 --> 06:37:46,920
Mentor Captain Tripp Barber we learned a

6434
06:37:50,810 --> 06:37:49,378
lot from them and uh yeah for anyone

6435
06:37:52,850 --> 06:37:50,820
interested in the program highly

6436
06:37:54,708 --> 06:37:52,860
recommend it we learned a lot had a lot

6437
06:37:57,530 --> 06:37:54,718
of fun as well and one thing that's been

6438
06:38:01,190 --> 06:37:57,540

very very rewarding over the past year

6439

06:38:03,350 --> 06:38:01,200

we really grew together as a team and

6440

06:38:04,970 --> 06:38:03,360

formed some very close bonds awesome

6441

06:38:06,170 --> 06:38:04,980

well congrats on the launch and thank

6442

06:38:07,548 --> 06:38:06,180

you so much for talking with you today

6443

06:38:09,590 --> 06:38:07,558

have a great rest of your day thank you

6444

06:38:11,510 --> 06:38:09,600

I appreciate it thank you thanks yeah

6445

06:38:13,670 --> 06:38:11,520

one last thing to say yeah that's go

6446

06:38:15,288 --> 06:38:13,680

navy bean Army

6447

06:38:17,270 --> 06:38:15,298

there it is they couldn't make it

6448

06:38:19,610 --> 06:38:17,280

without saying that of course totally

6449

06:38:22,310 --> 06:38:21,048

a little academy account yeah now we

6450

06:38:24,288 --> 06:38:22,320

have one of our high school teams here

6451
06:38:27,288 --> 06:38:24,298
East Aurora High School from New York

6452
06:38:29,270 --> 06:38:27,298
come on in how's everybody doing today

6453
06:38:31,368 --> 06:38:29,280
good pretty pumped about that launch

6454
06:38:33,890 --> 06:38:31,378
that launch was amazing yeah so tell us

6455
06:38:36,410 --> 06:38:33,900
about that launch I it went I can tell

6456
06:38:38,628 --> 06:38:36,420
you're excited went well oh yeah it went

6457
06:38:40,610 --> 06:38:38,638
perfect Flawless there was no issues at

6458
06:38:42,830 --> 06:38:40,620
all that doesn't often happen in

6459
06:38:45,110 --> 06:38:42,840
rocketry uh tell us about what this

6460
06:38:46,970 --> 06:38:45,120
process has been like and and challenges

6461
06:38:49,490 --> 06:38:46,980
that that brought you here this process

6462
06:38:51,110 --> 06:38:49,500
has been a lot of work trust me we've

6463
06:38:52,490 --> 06:38:51,120

gone through five full-scale flights

6464

06:38:54,948 --> 06:38:52,500

that this was actually our fifth right

6465

06:38:56,570 --> 06:38:54,958

here but our second full-scale flight we

6466

06:38:59,030 --> 06:38:56,580

actually crashed into a tree at 285

6467

06:39:00,948 --> 06:38:59,040

miles an hour because the whole recovery

6468

06:39:02,570 --> 06:39:00,958

system just didn't act properly and then

6469

06:39:03,830 --> 06:39:02,580

the third flight uh we only had two

6470

06:39:06,410 --> 06:39:03,840

charges go off and that was just the

6471

06:39:08,090 --> 06:39:06,420

main parachute so they didn't really

6472

06:39:10,190 --> 06:39:08,100

like that so our fourth flight was

6473

06:39:12,110 --> 06:39:10,200

actually on Saturday one week ago from

6474

06:39:15,708 --> 06:39:12,120

today and then we got approved to fly

6475

06:39:17,868 --> 06:39:15,718

Monday so it's been a hectic process so

6476
06:39:19,670 --> 06:39:17,878
determination and resiliency really kind

6477
06:39:22,128 --> 06:39:19,680
of seems to be the the motto of the team

6478
06:39:24,948 --> 06:39:22,138
yes yes definitely uh we're a six-member

6479
06:39:27,230 --> 06:39:24,958
team first year and we never gave up we

6480
06:39:29,270 --> 06:39:27,240
just kept pushing don't give up that's

6481
06:39:30,770 --> 06:39:29,280
awesome so talk to us about your payload

6482
06:39:32,628 --> 06:39:30,780
how what payload did you put in the

6483
06:39:34,850 --> 06:39:32,638
rocket so our payload is nicknamed near

6484
06:39:37,128 --> 06:39:34,860
i360 it's a near infrared atmospheric

6485
06:39:38,690 --> 06:39:37,138
Imaging system in 360 degrees so

6486
06:39:40,250 --> 06:39:38,700
basically it visualizes infrared

6487
06:39:41,990 --> 06:39:40,260
throughout the duration of the flight in

6488
06:39:43,070 --> 06:39:42,000

360 degrees and Compares it to

6489

06:39:44,810 --> 06:39:43,080

temperature humidity and pressure

6490

06:39:47,510 --> 06:39:44,820

sensors that are located within the

6491

06:39:49,310 --> 06:39:47,520

sensor Bay oh that's awesome so last

6492

06:39:51,350 --> 06:39:49,320

question for you guys I'm Gonna Let You

6493

06:39:53,150 --> 06:39:51,360

Go celebrate anybody back home you want

6494

06:39:54,890 --> 06:39:53,160

to say hi to give a shout out to and

6495

06:39:56,570 --> 06:39:54,900

basically everyone at this point the

6496

06:39:59,030 --> 06:39:56,580

whole town of East Aurora has always

6497

06:40:00,770 --> 06:39:59,040

been supporting us uh we've got Moog

6498

06:40:02,810 --> 06:40:00,780

they help sponsor us the Educational

6499

06:40:04,430 --> 06:40:02,820

Foundation they helped fund us uh aw

6500

06:40:06,470 --> 06:40:04,440

Miller they helped 3D print our nose

6501
06:40:08,510 --> 06:40:06,480
cone and there's so many other people

6502
06:40:10,910 --> 06:40:08,520
that couldn't be here without them Dr

6503
06:40:12,948 --> 06:40:10,920
Young our first mentor and then Vince

6504
06:40:14,990 --> 06:40:12,958
our second Mentor it's been a hectic

6505
06:40:16,610 --> 06:40:15,000
process but we pushed through we made it

6506
06:40:18,110 --> 06:40:16,620
and we're so glad to be here that's

6507
06:40:20,270 --> 06:40:18,120
awesome we're so glad to have you so

6508
06:40:22,490 --> 06:40:20,280
glad to see you big smiles on the faces

6509
06:40:24,170 --> 06:40:22,500
to everyone at East Aurora and New York

6510
06:40:26,390 --> 06:40:24,180
thank you so much for supporting the

6511
06:40:28,368 --> 06:40:26,400
team we truly appreciate it and I know

6512
06:40:30,650 --> 06:40:28,378
they do too y'all been wave to Mom and

6513
06:40:32,810 --> 06:40:30,660

Dad and everybody that is East Aurora

6514

06:40:35,330 --> 06:40:32,820

High School in New York thank you so

6515

06:40:38,330 --> 06:40:35,340

much y'all congratulations

6516

06:40:40,250 --> 06:40:38,340

so Lane we've got another team yep we

6517

06:40:42,350 --> 06:40:40,260

got another team there from Northern

6518

06:40:44,448 --> 06:40:42,360

Arizona University hey how's it going

6519

06:40:45,890 --> 06:40:44,458

today please introduce yourself hi there

6520

06:40:47,030 --> 06:40:45,900

my name is Dawson Purcell and I'm a

6521

06:40:48,830 --> 06:40:47,040

mechanical engineer from northern

6522

06:40:50,390 --> 06:40:48,840

Arizona okay how'd the launch go today

6523

06:40:52,070 --> 06:40:50,400

you know it went pretty good it went

6524

06:40:53,570 --> 06:40:52,080

pretty good uh All Transport Systems

6525

06:40:55,010 --> 06:40:53,580

function nominally uh most of our

6526

06:40:56,390 --> 06:40:55,020

payload systems did function nominally

6527

06:40:57,708 --> 06:40:56,400

we had a little bit of issue with a

6528

06:40:59,690 --> 06:40:57,718

deployments because we did deploy away

6529

06:41:01,490 --> 06:40:59,700

from the body tube to produce any drag

6530

06:41:03,350 --> 06:41:01,500

dude recoveries

6531

06:41:05,628 --> 06:41:03,360

experience a little hiccup for that but

6532

06:41:07,670 --> 06:41:05,638

mostly our systems work nominally yeah

6533

06:41:09,110 --> 06:41:07,680

that's great to hear so what challenges

6534

06:41:11,090 --> 06:41:09,120

have you guys kind of faced over the

6535

06:41:12,110 --> 06:41:11,100

school year yeah you know I think uh

6536

06:41:14,390 --> 06:41:12,120

it's going to be the same with Most

6537

06:41:16,010 --> 06:41:14,400

teens but resources time management that

6538

06:41:18,708 --> 06:41:16,020

kind of thing getting parts on you know

6539

06:41:20,030 --> 06:41:18,718

here on time Northern Arizona actually

6540

06:41:21,650 --> 06:41:20,040

experienced a record-breaking snowfall

6541

06:41:22,910 --> 06:41:21,660

so we had a lot of snow days off and

6542

06:41:24,410 --> 06:41:22,920

we're plowing through the snow just to

6543

06:41:26,990 --> 06:41:24,420

get there and build the rocket Arizona

6544

06:41:29,390 --> 06:41:27,000

yes ma'am wow that's that's incredible

6545

06:41:31,430 --> 06:41:29,400

to hear so uh what advice would you give

6546

06:41:33,350 --> 06:41:31,440

to teams who are new to the competition

6547

06:41:35,690 --> 06:41:33,360

oh my goodness uh start early start

6548

06:41:37,010 --> 06:41:35,700

early and really run through your

6549

06:41:38,690 --> 06:41:37,020

planning

6550

06:41:40,430 --> 06:41:38,700

um look at uh your motor selection and

6551
06:41:41,750 --> 06:41:40,440
shoot oh you can bring your apogee down

6552
06:41:42,948 --> 06:41:41,760
is what I would definitely recommend

6553
06:41:44,208 --> 06:41:42,958
that's one of the biggest things we've

6554
06:41:46,548 --> 06:41:44,218
been seeing a lot of students not

6555
06:41:47,930 --> 06:41:46,558
meeting apogee too so yeah so how many

6556
06:41:49,310 --> 06:41:47,940
people are on your team are you guys a

6557
06:41:50,868 --> 06:41:49,320
bigger team or more of a smaller team

6558
06:41:52,310 --> 06:41:50,878
somewhere in the middle uh for our

6559
06:41:53,628 --> 06:41:52,320
school we're kind of big but maybe not

6560
06:41:56,270 --> 06:41:53,638
compared to some other schools out here

6561
06:41:58,490 --> 06:41:56,280
we typically roll with about 13 uh you

6562
06:42:00,288 --> 06:41:58,500
know individuals in our group we're able

6563
06:42:02,270 --> 06:42:00,298

to bring down six of those individuals

6564

06:42:03,948 --> 06:42:02,280

okay so yeah so how's is a journey out

6565

06:42:07,070 --> 06:42:03,958

here did you guys drive or did you fly

6566

06:42:09,110 --> 06:42:07,080

luckily we uh we flew we did fly out

6567

06:42:10,490 --> 06:42:09,120

here and uh it wasn't too bad you know

6568

06:42:12,288 --> 06:42:10,500

we jumped on the airplane got here

6569

06:42:14,390 --> 06:42:12,298

pretty quick and uh was able to get up

6570

06:42:15,708 --> 06:42:14,400

and get set up yeah great is there

6571

06:42:17,750 --> 06:42:15,718

anyone you want to shout out think any

6572

06:42:19,610 --> 06:42:17,760

sponsors or people back home yeah

6573

06:42:20,810 --> 06:42:19,620

absolutely so uh first you know we

6574

06:42:22,128 --> 06:42:20,820

weren't able to take all of our team and

6575

06:42:24,948 --> 06:42:22,138

those guys worked really hard so it's

6576

06:42:27,048 --> 06:42:24,958

great uh I really like to thank them uh

6577

06:42:29,090 --> 06:42:27,058

our faculty at our

6578

06:42:31,030 --> 06:42:29,100

um you know at our University uh Dean

6579

06:42:34,788 --> 06:42:31,040

Wong as well really helped out

6580

06:42:37,430 --> 06:42:34,798

additionally uh NASA NAU Consortium as

6581

06:42:39,470 --> 06:42:37,440

well and WL Gore really came out we had

6582

06:42:41,330 --> 06:42:39,480

a lot of help out there

6583

06:42:43,250 --> 06:42:41,340

um yeah and we actually came out from

6584

06:42:44,570 --> 06:42:43,260

Wisconsin space right majority from

6585

06:42:46,430 --> 06:42:44,580

winning First Nations launched and so

6586

06:42:48,170 --> 06:42:46,440

those guys helped out a lot with us as

6587

06:42:50,628 --> 06:42:48,180

well so awesome well thank you so much

6588

06:42:52,430 --> 06:42:50,638

for talking with me today congrats on a

6589

06:42:53,890 --> 06:42:52,440

successful launch and wishing you the

6590

06:42:56,330 --> 06:42:53,900

best in the final results

6591

06:42:59,090 --> 06:42:56,340

thanks you too

6592

06:43:02,510 --> 06:42:59,100

all right it's so cool to see different

6593

06:43:04,070 --> 06:43:02,520

states that is that these teens really

6594

06:43:06,230 --> 06:43:04,080

it's the whole spectrum of the state and

6595

06:43:07,788 --> 06:43:06,240

Puerto Rico yeah absolutely you were

6596

06:43:10,368 --> 06:43:07,798

just reading my mind we went from New

6597

06:43:13,010 --> 06:43:10,378

Jersey to Arizona we had Oregon and

6598

06:43:14,650 --> 06:43:13,020

Washington on now now a treat going down

6599

06:43:17,270 --> 06:43:14,660

to the southeast corner of the country

6600

06:43:18,890 --> 06:43:17,280

UCF University of Central Florida you

6601
06:43:20,810 --> 06:43:18,900
heard from them earlier today before

6602
06:43:23,448 --> 06:43:20,820
their launch let's talk to them about

6603
06:43:24,890 --> 06:43:23,458
how did the launch go how are you guys

6604
06:43:26,510 --> 06:43:24,900
feeling after flying the rocket today

6605
06:43:27,890 --> 06:43:26,520
we're feeling awesome man it's been a

6606
06:43:30,170 --> 06:43:27,900
year working on this project and we

6607
06:43:31,430 --> 06:43:30,180
finally made it to lunch then we uh we

6608
06:43:32,750 --> 06:43:31,440
had a lot of failures especially our

6609
06:43:34,368 --> 06:43:32,760
vehicle demonstration and payload

6610
06:43:36,048 --> 06:43:34,378
demonstration flight but we're here we

6611
06:43:37,910 --> 06:43:36,058
built we rebuilt our payload in one week

6612
06:43:39,590 --> 06:43:37,920
and we got to Lodge we recovered safely

6613
06:43:41,448 --> 06:43:39,600

and we're super proud of ourselves so

6614

06:43:43,010 --> 06:43:41,458

let's talk about the altitude and then I

6615

06:43:44,990 --> 06:43:43,020

want to talk about your payload did you

6616

06:43:46,910 --> 06:43:45,000

guys come close to your target altitude

6617

06:43:48,048 --> 06:43:46,920

and then how did your payload perform so

6618

06:43:49,730 --> 06:43:48,058

we were actually a little bit below our

6619

06:43:50,868 --> 06:43:49,740

Target at altitude we had to paint our

6620

06:43:51,830 --> 06:43:50,878

rocket last second we were able to

6621

06:43:53,448 --> 06:43:51,840

recover some of the distance we

6622

06:43:55,128 --> 06:43:53,458

originally lost our payload did

6623

06:43:56,330 --> 06:43:55,138

self-oriented but however we weren't

6624

06:43:58,430 --> 06:43:56,340

able to get the pictures we wanted just

6625

06:44:00,410 --> 06:43:58,440

the lead mechanism fell off however

6626
06:44:01,850 --> 06:44:00,420
again more than we expected and again

6627
06:44:03,350 --> 06:44:01,860
we're really proud of the results either

6628
06:44:04,910 --> 06:44:03,360
way so definitely it sounds like you

6629
06:44:06,590 --> 06:44:04,920
guys would classify this as a very

6630
06:44:08,390 --> 06:44:06,600
successful launch

6631
06:44:10,250 --> 06:44:08,400
definitely so what's going through your

6632
06:44:12,230 --> 06:44:10,260
mind you guys have launched the rocky

6633
06:44:14,330 --> 06:44:12,240
are you guys able to take a breath now

6634
06:44:15,770 --> 06:44:14,340
or or what's up next for you well

6635
06:44:17,868 --> 06:44:15,780
honestly so we're part of an orientation

6636
06:44:20,208 --> 06:44:17,878
called kxr we do various projects we do

6637
06:44:21,230 --> 06:44:20,218
hybrid ion liquid and salt propulsion so

6638
06:44:22,368 --> 06:44:21,240

these kids these kids are gonna keep

6639

06:44:23,810 --> 06:44:22,378

moving on they've been doing amazing

6640

06:44:24,830 --> 06:44:23,820

work and this is our actually most of

6641

06:44:26,570 --> 06:44:24,840

these kids it's their first year doing

6642

06:44:27,590 --> 06:44:26,580

rocketry and they're moving on to bigger

6643

06:44:28,910 --> 06:44:27,600

and better things and they're going to

6644

06:44:30,770 --> 06:44:28,920

keep going and keep working hard so I

6645

06:44:32,628 --> 06:44:30,780

know the managers and I will be working

6646

06:44:33,890 --> 06:44:32,638

on the plar document however these kids

6647

06:44:35,510 --> 06:44:33,900

will be continue doing the amazing stuff

6648

06:44:36,890 --> 06:44:35,520

they're doing already so what's been the

6649

06:44:38,330 --> 06:44:36,900

favorite part and I see a piece of

6650

06:44:39,530 --> 06:44:38,340

Hardware I've got to ask about that

6651
06:44:42,110 --> 06:44:39,540
what's been the favorite part in the

6652
06:44:44,150 --> 06:44:42,120
tell us tell us what we have here uh out

6653
06:44:45,708 --> 06:44:44,160
from your rocket so this is the payload

6654
06:44:47,868 --> 06:44:45,718
integrated launch log we lovingly call

6655
06:44:49,850 --> 06:44:47,878
it the pill it is a cylinder with a

6656
06:44:52,430 --> 06:44:49,860
self-orienting mechanism right here and

6657
06:44:54,048 --> 06:44:52,440
then what once was our lead elevator is

6658
06:44:55,310 --> 06:44:54,058
somewhere in here of our camera it spits

6659
06:44:58,510 --> 06:44:55,320
it out opens the hatch and stuff

6660
06:45:00,650 --> 06:44:58,520
warrants them so if you guys had fun

6661
06:45:02,510 --> 06:45:00,660
it's stressful but it's been fun

6662
06:45:03,770 --> 06:45:02,520
definitely worthwhile that's excellent

6663
06:45:06,410 --> 06:45:03,780

anybody back home you want to give a

6664

06:45:07,970 --> 06:45:06,420

shout out to uh back home honestly just

6665

06:45:09,590 --> 06:45:07,980

for the rest of the club there's 400

6666

06:45:11,030 --> 06:45:09,600

members back home watching us live right

6667

06:45:11,990 --> 06:45:11,040

now you guys are awesome we couldn't do

6668

06:45:13,970 --> 06:45:12,000

this without you you guys have been our

6669

06:45:14,750 --> 06:45:13,980

mentors and our and our guides thank you

6670

06:45:16,368 --> 06:45:14,760

guys

6671

06:45:17,990 --> 06:45:16,378

well thank you so much for being here

6672

06:45:19,730 --> 06:45:18,000

thank you all for your hard work for

6673

06:45:21,350 --> 06:45:19,740

your dedication for coming we hope to

6674

06:45:22,788 --> 06:45:21,360

see you again next year we'll end up

6675

06:45:25,610 --> 06:45:22,798

enjoying the NASA in the space flight

6676

06:45:27,650 --> 06:45:25,620

Community here soon so thank you that is

6677

06:45:32,390 --> 06:45:27,660

the University of Central Florida

6678

06:45:37,310 --> 06:45:34,970

that's awesome play and bring you back

6679

06:45:38,510 --> 06:45:37,320

in I love the cave Spirit

6680

06:45:40,670 --> 06:45:38,520

um

6681

06:45:43,310 --> 06:45:40,680

so they had their go nice the University

6682

06:45:45,048 --> 06:45:43,320

of Puerto Rico Omega is walking by us

6683

06:45:48,770 --> 06:45:45,058

right now we heard them chanting during

6684

06:45:48,780 --> 06:45:55,590

they got some instruments as well

6685

06:46:02,690 --> 06:46:00,548

[Applause]

6686

06:46:04,670 --> 06:46:02,700

it's never a dull moment here that's

6687

06:46:07,430 --> 06:46:04,680

what I truly love it looks like we

6688

06:46:10,310 --> 06:46:07,440

aren't getting close to do it to uh to

6689

06:46:11,510 --> 06:46:10,320

the fourth and final round but

6690

06:46:14,090 --> 06:46:11,520

um let's find out what's been going on

6691

06:46:16,430 --> 06:46:14,100

on social so let's bring a list yes

6692

06:46:17,930 --> 06:46:16,440

hi Alyssa how's it going good how are

6693

06:46:19,670 --> 06:46:17,940

you good so how's it looking on social

6694

06:46:21,048 --> 06:46:19,680

how are things going it looks really

6695

06:46:22,310 --> 06:46:21,058

good we love seeing your comments and

6696

06:46:24,230 --> 06:46:22,320

everything and you're joining the

6697

06:46:26,270 --> 06:46:24,240

conversation with hashtag student launch

6698

06:46:27,410 --> 06:46:26,280

so we love seeing it I just want to

6699

06:46:29,390 --> 06:46:27,420

remind everyone we're going to continue

6700

06:46:30,708 --> 06:46:29,400

this conversation on you know these

6701
06:46:32,750 --> 06:46:30,718
awards are going to happen I think in

6702
06:46:34,788 --> 06:46:32,760
June is that correct yes yeah so we'll

6703
06:46:37,070 --> 06:46:34,798
be posting those updates on the student

6704
06:46:38,930 --> 06:46:37,080
launch Twitter and Facebook page after

6705
06:46:40,610 --> 06:46:38,940
this event so definitely follow us and

6706
06:46:42,530 --> 06:46:40,620
stay tuned for that we're also going to

6707
06:46:44,750 --> 06:46:42,540
be posting on NASA's Marshall space

6708
06:46:46,190 --> 06:46:44,760
flight center social media accounts and

6709
06:46:47,448 --> 06:46:46,200
the space launch system social media

6710
06:46:49,250 --> 06:46:47,458
accounts as well to get your Artemis

6711
06:46:52,510 --> 06:46:49,260
updates so just want to plug those

6712
06:46:55,070 --> 06:46:52,520
social accounts for sure yes of course

6713
06:46:56,690 --> 06:46:55,080

anybody tuned in late maybe they missed

6714

06:46:58,250 --> 06:46:56,700

their team in the early volleyball

6715

06:47:00,650 --> 06:46:58,260

they're gonna be able to catch that

6716

06:47:02,570 --> 06:47:00,660

action later on absolutely you can go to

6717

06:47:04,190 --> 06:47:02,580

NASA Marshall's YouTube channel and be

6718

06:47:08,030 --> 06:47:04,200

able to watch this video after this

6719

06:47:09,948 --> 06:47:08,040

event is over so definitely watch there

6720

06:47:12,288 --> 06:47:09,958

of you joining us on Marshall's YouTube

6721

06:47:13,968 --> 06:47:12,298

channel NASA student launch we are

6722

06:47:15,890 --> 06:47:13,978

getting close but we're not quite there

6723

06:47:17,690 --> 06:47:15,900

yet so we're going to send you back to

6724

06:47:19,368 --> 06:47:17,700

the wide shot we'll be back with you

6725

06:47:21,170 --> 06:47:19,378

shortly before the final launches

6726
06:47:22,968 --> 06:47:21,180
shouldn't be too long from now thank you

6727
06:47:24,708 --> 06:47:22,978
for joining us here at Bragg farms in

6728
06:47:26,030 --> 06:47:24,718
Tony Alabama just down the road from

6729
06:47:29,208 --> 06:47:26,040
Marshall space flight center where we

6730
06:47:30,590 --> 06:47:29,218
all work uh for the 2023 NASA student

6731
06:48:13,090 --> 06:47:30,600
launch finale we'll be back with you

6732
06:48:13,100 --> 06:49:53,208
you want

6733
06:52:15,350 --> 06:50:57,048
foreign

6734
06:52:15,360 --> 06:53:31,910
thank you

6735
06:53:31,920 --> 06:53:52,150
foreign

6736
06:53:57,048 --> 06:53:55,070
for the teams if you have not checked in

6737
06:53:59,570 --> 06:53:57,058
your altitude make sure you come up to

6738
06:54:02,330 --> 06:53:59,580

check in with John Eckert to record your

6739

06:54:03,650 --> 06:54:02,340

altitude so that it's cataloged so if

6740

06:54:04,730 --> 06:54:03,660

you haven't had a chance to do that make

6741

06:54:07,070 --> 06:54:04,740

sure you

6742

06:54:08,270 --> 06:54:07,080

provide your altitude before you leave

6743

06:54:31,250 --> 06:54:08,280

here today

6744

06:54:31,260 --> 06:54:39,490

thank you

6745

06:54:39,500 --> 06:55:30,770

all right

6746

06:57:15,288 --> 06:55:33,590

yeah it is a little cooler right here in

6747

06:57:15,298 --> 06:58:20,510

foreign

6748

06:58:20,520 --> 06:59:21,410

thank you

6749

07:01:40,368 --> 07:00:24,410

foreign

6750

07:01:40,378 --> 07:03:04,150

here

6751
07:03:04,160 --> 07:03:34,850
thank you

6752
07:03:38,570 --> 07:03:36,590
hey everyone we are back with you for

6753
07:03:40,310 --> 07:03:38,580
the finale of the 2023 NASA student

6754
07:03:41,750 --> 07:03:40,320
launch competition we got five more

6755
07:03:43,128 --> 07:03:41,760
Rockets down on the rails without

6756
07:03:45,230 --> 07:03:43,138
further Ado we're going to send it to

6757
07:03:47,570 --> 07:03:45,240
Gerald in our launch commentary to get

6758
07:03:51,350 --> 07:03:47,580
us those commentary we'll see you back

6759
07:03:56,030 --> 07:03:53,810
okay we gotta go quick I've been told to

6760
07:03:58,548 --> 07:03:56,040
speed it up so on pad number 10 we have

6761
07:03:59,750 --> 07:03:58,558
Rams and Rockets this is Angela state

6762
07:04:04,390 --> 07:03:59,760
universe

6763
07:04:10,190 --> 07:04:07,730

okay so I can just so this is the name

6764

07:04:13,968 --> 07:04:10,200

of the rocket is candy Ram it's 26.7

6765

07:04:16,250 --> 07:04:13,978

pounds 5.15 inch diameter 8.63 feet tall

6766

07:04:18,048 --> 07:04:16,260

candy cane inspired it's got cads which

6767

07:04:22,670 --> 07:04:18,058

is an acronym for the team members names

6768

07:04:26,570 --> 07:04:22,680

it's flying on a Arrow C the Aerotech

6769

07:04:29,510 --> 07:04:26,580

k1050 it should go 5100 feet

6770

07:04:31,850 --> 07:04:29,520

on pad number 10 we have a clear sky we

6771

07:04:37,740 --> 07:04:31,860

have a clear range we're gonna go in

6772

07:04:42,708 --> 07:04:37,750

five four three two one ignition

6773

07:04:47,448 --> 07:04:45,530

so this rocket has candy cane inspired

6774

07:04:49,850 --> 07:04:47,458

paint job using yellow and blue scrape

6775

07:04:51,590 --> 07:04:49,860

meat this has a linear actuator to push

6776
07:05:04,788 --> 07:04:51,600
nose come out which releases a camera

6777
07:05:04,798 --> 07:05:18,770
all right

6778
07:05:30,948 --> 07:05:20,628
okay the rock is probably a couple

6779
07:05:37,850 --> 07:05:34,190
okay we're about a thousand feet up

6780
07:05:43,968 --> 07:05:42,230
there shoots out all right this rocket

6781
07:05:45,708 --> 07:05:43,978
with this team is the first time that

6782
07:05:48,410 --> 07:05:45,718
they're out here has a scissor lift

6783
07:05:50,570 --> 07:05:48,420
mechanism with a pendulum and gravity

6784
07:05:52,670 --> 07:05:50,580
they painted it like the candy cane

6785
07:05:55,490 --> 07:05:52,680
following their spirals

6786
07:05:57,830 --> 07:05:55,500
and then they also did 3D paint or 3D

6787
07:06:01,788 --> 07:05:57,840
prints the inside parts that also match

6788
07:06:05,090 --> 07:06:01,798

the school colors so the original team

6789

07:06:06,948 --> 07:06:05,100

was four members the team worked from

6790

07:06:08,868 --> 07:06:06,958

scratch and they had no history to work

6791

07:06:11,628 --> 07:06:08,878

from so pretty remarkable they got that

6792

07:06:13,850 --> 07:06:11,638

all together as a team looks to be like

6793

07:06:16,610 --> 07:06:13,860

a good flight hopefully the

6794

07:06:18,410 --> 07:06:16,620

system does what it's supposed to do

6795

07:06:28,250 --> 07:06:18,420

we're supposed to be seeing a scissor

6796

07:06:28,260 --> 07:06:33,048

always things going

6797

07:06:35,930 --> 07:06:34,670

okay I'll read the card as they're

6798

07:06:39,230 --> 07:06:35,940

coming back in

6799

07:06:42,670 --> 07:06:39,240

so on pad number 11. we have Morris

6800

07:06:45,468 --> 07:06:42,680

County 4-H this is

6801
07:06:48,230 --> 07:06:45,478
resisto Jets rocketry the Morris County

6802
07:06:50,288 --> 07:06:48,240
4-H team at a Morristown New Jersey the

6803
07:06:53,868 --> 07:06:50,298
name of this rocket is baby blue

6804
07:06:59,930 --> 07:06:53,878
18.2 pounds four inch diameter seven and

6805
07:07:05,750 --> 07:07:03,410
flying on an Aerotech k1100 Blue Thunder

6806
07:07:08,628 --> 07:07:05,760
it's the white and red rock it should go

6807
07:07:11,090 --> 07:07:08,638
about 3 800 feet and then this one does

6808
07:07:13,010 --> 07:07:11,100
carry a completely external Mission

6809
07:07:15,170 --> 07:07:13,020
payload

6810
07:07:17,510 --> 07:07:15,180
we have a clear sky we have a clear

6811
07:07:21,230 --> 07:07:17,520
range we are going to launch Morris

6812
07:07:23,448 --> 07:07:21,240
County 4-H baby blue it's painted red

6813
07:07:28,660 --> 07:07:23,458

though okay we're gonna watch in five

6814

07:07:32,810 --> 07:07:30,770

[Music]

6815

07:07:34,850 --> 07:07:32,820

nice boost on that one

6816

07:07:37,730 --> 07:07:34,860

this one does have a large externally

6817

07:07:39,650 --> 07:07:37,740

mounted camera arm it's a usli payload

6818

07:07:42,350 --> 07:07:39,660

challenge robotic arm on side of rocket

6819

07:07:44,150 --> 07:07:42,360

that deploys after landing we weren't

6820

07:07:48,350 --> 07:07:44,160

able to finish the software in time so

6821

07:07:52,730 --> 07:07:50,750

at an event on the rocket

6822

07:07:55,310 --> 07:07:52,740

we were the smallest team just five

6823

07:07:57,590 --> 07:07:55,320

people our first year here very excited

6824

07:07:59,690 --> 07:07:57,600

most of our team is Nar Jr level one

6825

07:08:01,070 --> 07:07:59,700

well welcome and congrats being nerd

6826
07:08:04,548 --> 07:08:01,080
junior level one

6827
07:08:27,468 --> 07:08:04,558
second flight landed hard and might have

6828
07:08:33,048 --> 07:08:31,128
so this this one also with this team up

6829
07:08:35,690 --> 07:08:33,058
there is that about a thousand feet up

6830
07:08:36,650 --> 07:08:35,700
so we should see the parachute there it

6831
07:08:39,250 --> 07:08:36,660
is

6832
07:08:42,890 --> 07:08:39,260
oh hit the parachute

6833
07:08:45,350 --> 07:08:42,900
Get It Free itself

6834
07:08:47,150 --> 07:08:45,360
it won't land as hard but it's not going

6835
07:08:49,070 --> 07:08:47,160
to be as soft either

6836
07:08:51,948 --> 07:08:49,080
well maybe not never mind that hit

6837
07:08:53,628 --> 07:08:51,958
pretty hard so this team does um they

6838
07:08:55,730 --> 07:08:53,638

also like to put stripes on the rocket

6839

07:08:57,048 --> 07:08:55,740

for successful flights I don't know if

6840

07:08:58,788 --> 07:08:57,058

they're gonna put a stripe on this one

6841

07:09:01,128 --> 07:08:58,798

for this flight

6842

07:09:03,170 --> 07:09:01,138

this team this rocket was also cold

6843

07:09:05,330 --> 07:09:03,180

weather and high wind test it is going

6844

07:09:08,510 --> 07:09:05,340

in 20 degree weather in 15 mile an hour

6845

07:09:10,610 --> 07:09:08,520

winds and this team also does carry an

6846

07:09:15,590 --> 07:09:10,620

official photographer on the team so

6847

07:09:22,190 --> 07:09:20,570

okay now we are going to pad number 12.

6848

07:09:25,190 --> 07:09:22,200

I didn't even say what it is you know

6849

07:09:30,948 --> 07:09:28,010

so on pad number 12 we have Army rocket

6850

07:09:33,230 --> 07:09:30,958

engineering Sciences Ares

6851
07:09:35,570 --> 07:09:33,240
United States military at a West Point

6852
07:09:38,948 --> 07:09:35,580
New York uh United States Military

6853
07:09:42,890 --> 07:09:38,958
Academy name of this rocket is

6854
07:09:44,048 --> 07:09:42,900
h-a-s-t-a-1 14.2 pounds four inch in

6855
07:09:46,368 --> 07:09:44,058
diameter

6856
07:09:49,208 --> 07:09:46,378
7.7 feet long

6857
07:09:53,448 --> 07:09:49,218
the thrust away ratio in this one is

6858
07:09:56,448 --> 07:09:53,458
31-1 so this is going to be quick it's

6859
07:09:59,208 --> 07:09:56,458
supposed to have 35 G's off the pad so

6860
07:10:01,128 --> 07:09:59,218
this will be a quick one up there thanks

6861
07:10:02,330 --> 07:10:01,138
they are they're pretty Rowdy over there

6862
07:10:04,310 --> 07:10:02,340
so uh

6863
07:10:06,048 --> 07:10:04,320

[Applause]

6864

07:10:08,510 --> 07:10:06,058

get them talking too much we'll do

6865

07:10:12,170 --> 07:10:08,520

another push-up contest so there it says

6866

07:10:14,448 --> 07:10:12,180

remote area survey Pro called rasp as an

6867

07:10:16,670 --> 07:10:14,458

autonomous deployment Landing site

6868

07:10:18,468 --> 07:10:16,680

survey probe Imaging of the environment

6869

07:10:20,570 --> 07:10:18,478

controlled by RF command

6870

07:10:23,150 --> 07:10:20,580

this is the first team to ever compete

6871

07:10:25,850 --> 07:10:23,160

in the NASA SLI competition from West

6872

07:10:27,770 --> 07:10:25,860

Point this rocket is dedicated to the

6873

07:10:30,410 --> 07:10:27,780

third Armored Division fighting in World

6874

07:10:33,170 --> 07:10:30,420

War II spearhead Victory or death Beat

6875

07:10:36,230 --> 07:10:33,180

Navy wait a minute

6876

07:10:38,150 --> 07:10:36,240

trying to sneak that one in there

6877

07:10:40,190 --> 07:10:38,160

I do want to also just mention

6878

07:10:41,990 --> 07:10:40,200

um the teams they almost named the

6879

07:10:45,170 --> 07:10:42,000

payload Rebecca so I don't know the

6880

07:10:48,708 --> 07:10:45,180

story behind Rebecca they also do want

6881

07:10:50,230 --> 07:10:48,718

to thank Mr mosquero for your patience I

6882

07:10:52,490 --> 07:10:50,240

guess they've bothered him quite a bit

6883

07:10:54,830 --> 07:10:52,500

and then this is

6884

07:10:56,930 --> 07:10:54,840

um this team has also claimed they've

6885

07:10:59,690 --> 07:10:56,940

had to conduct open heart surgery on the

6886

07:11:01,670 --> 07:10:59,700

rocket the team's famous quote is do you

6887

07:11:03,890 --> 07:11:01,680

have a soldering iron you can go talk to

6888

07:11:06,230 --> 07:11:03,900

Auburn there's a team on there they got

6889

07:11:08,868 --> 07:11:06,240

solder over there on this team also has

6890

07:11:11,270 --> 07:11:08,878

encountered spontaneous disassembly

6891

07:11:13,788 --> 07:11:11,280

during sub-scale flight they set

6892

07:11:15,708 --> 07:11:13,798

batteries out they also want the

6893

07:11:18,170 --> 07:11:15,718

audience to know the camera is not

6894

07:11:19,968 --> 07:11:18,180

upside down this time

6895

07:11:20,930 --> 07:11:19,978

there's a lot of story lines with this

6896

07:11:22,670 --> 07:11:20,940

team

6897

07:11:24,230 --> 07:11:22,680

um so for for those that are unaware

6898

07:11:27,170 --> 07:11:24,240

students will be coming out of the

6899

07:11:30,468 --> 07:11:27,180

academy as adults with Bachelors serving

6900

07:11:31,850 --> 07:11:30,478

as officers for uh for the US Army so we

6901
07:11:32,930 --> 07:11:31,860
want to thank you for your service in

6902
07:11:36,048 --> 07:11:32,940
advance let's give them a round of

6903
07:11:40,250 --> 07:11:38,448
and one of my notes so this is my notes

6904
07:11:42,350 --> 07:11:40,260
during the week this team has a lot of

6905
07:11:45,048 --> 07:11:42,360
high energy if you didn't notice so that

6906
07:11:47,330 --> 07:11:45,058
if you be careful we might change you to

6907
07:11:49,548 --> 07:11:47,340
a push-up contest

6908
07:11:53,208 --> 07:11:49,558
um this team also does have an official

6909
07:11:55,128 --> 07:11:53,218
Pao a Public Affair officer role in the

6910
07:11:57,948 --> 07:11:55,138
team so you got this team rolls deep

6911
07:12:00,530 --> 07:11:57,958
they don't mess around so with all that

6912
07:12:02,868 --> 07:12:00,540
aside what's this gonna take off really

6913
07:12:08,150 --> 07:12:02,878

quick so this is on pad number 12 on a

6914

07:12:10,430 --> 07:12:08,160

Aerotek k2050 super Thunder 35 G's we

6915

07:12:13,128 --> 07:12:10,440

have a clear sky we have a clear range

6916

07:12:20,510 --> 07:12:13,138

we're gonna launch this one in five four

6917

07:12:20,520 --> 07:12:25,580

they are pretty excited over there

6918

07:12:25,590 --> 07:12:32,930

[Applause]

6919

07:12:32,940 --> 07:12:38,750

okay there's an event

6920

07:12:46,310 --> 07:12:41,750

okay drove parachute is out on that one

6921

07:12:58,310 --> 07:12:46,320

main is set for 525 feet

6922

07:13:03,760 --> 07:13:00,650

it's still pretty high up there probably

6923

07:13:18,730 --> 07:13:03,770

another 3 000 feet at least

6924

07:13:24,368 --> 07:13:21,410

we're still probably another 2 000 feet

6925

07:13:27,468 --> 07:13:24,378

on maybe even a little bit more

6926
07:13:30,230 --> 07:13:27,478
yeah I would do a heads up on this one

6927
07:13:32,390 --> 07:13:30,240
so point at it look at it let your

6928
07:13:34,490 --> 07:13:32,400
neighbors know

6929
07:13:36,948 --> 07:13:34,500
look up point out and let your neighbors

6930
07:13:42,770 --> 07:13:39,890
mean parachute is out on this one but it

6931
07:13:44,448 --> 07:13:42,780
is like by the crowd look at it point at

6932
07:13:46,670 --> 07:13:44,458
it let your neighbors know it should be

6933
07:13:49,368 --> 07:13:46,680
in the open area don't touch it when it

6934
07:13:53,208 --> 07:13:52,310
looks like it should be right out in the

6935
07:13:55,968 --> 07:13:53,218
open

6936
07:13:58,430 --> 07:13:55,978
very close

6937
07:14:01,310 --> 07:13:58,440
okay looks like it's down

6938
07:14:01,320 --> 07:14:06,460

who's ready for a push-up contest

6939

07:14:06,470 --> 07:14:14,530

[Music]

6940

07:14:14,540 --> 07:14:21,580

oh wow I like the little uh

6941

07:14:23,350 --> 07:14:22,090

[Applause]

6942

07:14:26,090 --> 07:14:23,360

[Music]

6943

07:14:36,590 --> 07:14:26,100

that is a very subdued team that's what

6944

07:14:41,170 --> 07:14:37,968

because

6945

07:14:45,350 --> 07:14:41,180

it's 41. okay on pad number 41

6946

07:14:47,448 --> 07:14:45,360

pad 41 this is 49er rocketry team

6947

07:14:49,548 --> 07:14:47,458

from UNC Charlotte out of Charlotte

6948

07:14:56,990 --> 07:14:49,558

North Carolina

6949

07:15:00,708 --> 07:14:58,548

we'll have to explain that one to me

6950

07:15:03,708 --> 07:15:00,718

later 44 and a half pounds

6951

07:15:08,330 --> 07:15:03,718

diameter it used to be 11 and a half

6952

07:15:09,948 --> 07:15:08,340

feet oh no no it's 9.25 feet tall at 600

6953

07:15:13,010 --> 07:15:09,958

feet at Main deployment vehicle

6954

07:15:15,010 --> 07:15:13,020

separates into two independent sections

6955

07:15:18,110 --> 07:15:15,020

this says

6956

07:15:20,628 --> 07:15:18,120

about time you showed up

6957

07:15:22,788 --> 07:15:20,638

600 feet vehicle separates into two

6958

07:15:25,430 --> 07:15:22,798

spots

6959

07:15:29,810 --> 07:15:25,440

and it whoops

6960

07:15:31,368 --> 07:15:29,820

this is flying on a cesaroni CTI I1720

6961

07:15:34,310 --> 07:15:31,378

white Thunder

6962

07:15:36,048 --> 07:15:34,320

should go about 4 200 feet this had a

6963

07:15:37,850 --> 07:15:36,058

very integrated airframe that the

6964

07:15:40,490 --> 07:15:37,860

airframe door opens and the payload

6965

07:15:42,048 --> 07:15:40,500

Mission operates asynchronously I had to

6966

07:15:45,708 --> 07:15:42,058

look that word up learned a new word

6967

07:15:47,868 --> 07:15:45,718

this week for their subscale flight they

6968

07:15:50,390 --> 07:15:47,878

said it had to have a funeral they had a

6969

07:15:52,548 --> 07:15:50,400

funeral for their subscale flight it may

6970

07:15:55,670 --> 07:15:52,558

have dug its own grave

6971

07:15:58,910 --> 07:15:55,680

so last year the uh oh and then last

6972

07:16:02,570 --> 07:15:58,920

year's participating team member is now

6973

07:16:04,610 --> 07:16:02,580

the team's mentor and so the same

6974

07:16:08,150 --> 07:16:04,620

occurrence happened the year prior the

6975

07:16:10,010 --> 07:16:08,160

year priors Mentor was a participant so

6976
07:16:13,070 --> 07:16:10,020
that's pretty neat they've got a plan

6977
07:16:16,368 --> 07:16:13,080
going forward year after year so we're

6978
07:16:18,770 --> 07:16:16,378
gonna go on pad number 41 we have a

6979
07:16:22,128 --> 07:16:18,780
we have a clear sky we have a clear

6980
07:16:30,650 --> 07:16:22,138
range we are launching in five four

6981
07:16:35,868 --> 07:16:33,110
maybe a little overstable on the Boost

6982
07:16:37,730 --> 07:16:35,878
or maybe the body tube was wanting to go

6983
07:16:39,890 --> 07:16:37,740
one way the rocket go the other way but

6984
07:16:43,190 --> 07:16:39,900
still went up the other way

6985
07:16:47,868 --> 07:16:45,350
there's an event there's the backup to

6986
07:16:51,230 --> 07:16:47,878
the apogee

6987
07:16:53,090 --> 07:16:51,240
small drunk parachute is out main is set

6988
07:16:55,968 --> 07:16:53,100

for 600 feet

6989

07:16:57,530 --> 07:16:55,978

oh looks like the main pair shoots out

6990

07:17:02,390 --> 07:16:57,540

early

6991

07:17:09,110 --> 07:17:04,310

now there's another piece that's a

6992

07:17:15,530 --> 07:17:12,170

so it looks like unfortunately the main

6993

07:17:17,750 --> 07:17:15,540

parachute is up there by itself

6994

07:17:23,410 --> 07:17:17,760

the rest of the rocket is coming down on

6995

07:17:29,208 --> 07:17:26,208

oh maybe it's supposed to recover in

6996

07:17:30,590 --> 07:17:29,218

multiple pieces so we're approaching oh

6997

07:17:32,868 --> 07:17:30,600

they're okay so there's just there's a

6998

07:17:35,090 --> 07:17:32,878

lot of parachutes on this one

6999

07:17:37,430 --> 07:17:35,100

so they got one pair of shoe that might

7000

07:17:40,310 --> 07:17:37,440

land in Tennessee and then this one here

7001
07:17:55,868 --> 07:17:40,320
is going to land here in Alabama so

7002
07:18:01,670 --> 07:18:00,170
okay we are on pad 42. everyone give

7003
07:18:03,890 --> 07:18:01,680
yourselves a round of applause this is

7004
07:18:06,948 --> 07:18:03,900
the last launch of the day

7005
07:18:09,350 --> 07:18:06,958
yeah this has uh been a been a fun day

7006
07:18:11,570 --> 07:18:09,360
burn some calories Frozen to put out a

7007
07:18:13,250 --> 07:18:11,580
little bit of some uh fires but we have

7008
07:18:14,090 --> 07:18:13,260
a good day a lot of good Rockets flew

7009
07:18:16,670 --> 07:18:14,100
well

7010
07:18:18,288 --> 07:18:16,680
a couple of bumps and bruises on some a

7011
07:18:20,510 --> 07:18:18,298
lot of fun experiments we were testing

7012
07:18:22,610 --> 07:18:20,520
and we're on the last one for this this

7013
07:18:27,350 --> 07:18:22,620

year's 2023

7014

07:18:29,810 --> 07:18:27,360

uh 2023 uh SLI usli competition so this

7015

07:18:32,868 --> 07:18:29,820

side this team is WSU Everett rocket

7016

07:18:36,350 --> 07:18:32,878

team out of WSU ever and Everett

7017

07:18:38,090 --> 07:18:36,360

Washington named the rocket is C1 40.27

7018

07:18:40,670 --> 07:18:38,100

pounds five and a half inch diameter 10

7019

07:18:44,208 --> 07:18:40,680

feet tall detecting a vertical Landing

7020

07:18:47,030 --> 07:18:44,218

the legs deploy at 400 feet this is the

7021

07:18:50,448 --> 07:18:47,040

NASA usli Servo

7022

07:18:53,330 --> 07:18:50,458

um let's see actuated camera and Landing

7023

07:18:56,930 --> 07:18:53,340

Lake deployment system

7024

07:18:59,750 --> 07:18:56,940

this is like a cesaroni I 1030 Redline

7025

07:19:00,770 --> 07:18:59,760

Circle 4100 feet is their first time

7026

07:19:02,750 --> 07:19:00,780

here

7027

07:19:04,730 --> 07:19:02,760

they did have it wrapped in a magic

7028

07:19:07,368 --> 07:19:04,740

color they have 12 total team members

7029

07:19:09,288 --> 07:19:07,378

eight on the usli team six of them

7030

07:19:11,150 --> 07:19:09,298

certified level two in the last year

7031

07:19:14,030 --> 07:19:11,160

they wanted to make the comment this

7032

07:19:16,670 --> 07:19:14,040

rocket does not Skip Leg Day so we'll

7033

07:19:26,530 --> 07:19:16,680

see how the legs perform last launch of

7034

07:19:31,310 --> 07:19:29,330

okay we're gonna wait one second on the

7035

07:19:34,670 --> 07:19:31,320

second part

7036

07:19:37,310 --> 07:19:34,680

of the UNC rocket it's I think it's it's

7037

07:19:39,170 --> 07:19:37,320

payload or nose cone

7038

07:20:01,448 --> 07:19:39,180

it's Northeast of us but I just want to

7039

07:20:08,628 --> 07:20:05,390

okay we've got the we got the uh last

7040

07:20:39,770 --> 07:20:08,638

launch now that one is good to go

7041

07:20:46,070 --> 07:20:42,110

there's there's no charge with it though

7042

07:20:46,080 --> 07:20:50,448

okay okay

7043

07:20:54,590 --> 07:20:52,490

we didn't Skip Leg Day we didn't want to

7044

07:20:58,670 --> 07:20:54,600

skip this last rocket launch so this is

7045

07:21:01,368 --> 07:20:58,680

the conclusion of the 2023 USL SLI with

7046

07:21:02,990 --> 07:21:01,378

this final rocket we have a clear sky we

7047

07:21:14,410 --> 07:21:03,000

have a clear range we're going to launch

7048

07:21:18,350 --> 07:21:17,208

I see the light the lights came out a

7049

07:21:21,350 --> 07:21:18,360

little early

7050

07:21:25,368 --> 07:21:21,360

when to show off the legs I guess

7051

07:21:32,990 --> 07:21:27,948

yep

7052

07:21:40,730 --> 07:21:35,990

the main parachute oh the legs are going

7053

07:21:44,930 --> 07:21:43,128

okay heads up on the upper part under

7054

07:21:47,448 --> 07:21:44,940

parachute you want to get out from under

7055

07:22:04,570 --> 07:21:47,458

the tents just in case out from under

7056

07:22:09,170 --> 07:22:07,010

all right well give yourselves a hand

7057

07:22:13,850 --> 07:22:09,180

that was a quite a suspenseful finish

7058

07:22:17,510 --> 07:22:13,860

but that this concludes our 2023 usli

7059

07:22:20,990 --> 07:22:17,520

SLI competition thank you NASA thank you

7060

07:22:24,230 --> 07:22:21,000

Nara thanks you Bragg family farms

7061

07:22:25,570 --> 07:22:24,240

oh oh and um so thank you all for for

7062

07:22:29,208 --> 07:22:25,580

all the

7063

07:22:31,610 --> 07:22:29,218

supporting I think we're gonna toss it

7064

07:22:33,948 --> 07:22:31,620

back over to will to talk to a couple

7065

07:22:35,270 --> 07:22:33,958

other students shout out to will he just

7066

07:22:36,830 --> 07:22:35,280

recently got married this week he's

7067

07:22:38,690 --> 07:22:36,840

trying to sneak that one in there so

7068

07:22:41,270 --> 07:22:38,700

congrats will but we'll pass it back

7069

07:22:42,830 --> 07:22:41,280

over to you

7070

07:22:44,628 --> 07:22:42,840

we certainly appreciate all the

7071

07:22:46,610 --> 07:22:44,638

incredible work you've done bringing

7072

07:22:49,250 --> 07:22:46,620

these launches to life for everybody uh

7073

07:22:51,770 --> 07:22:49,260

here at the field and back home as you

7074

07:22:53,868 --> 07:22:51,780

saw we have completed all of our Rockets

7075

07:22:55,788 --> 07:22:53,878

behind us the crowds went in and out but

7076
07:22:56,810 --> 07:22:55,798
we do get a talk with the team that I've

7077
07:22:58,070 --> 07:22:56,820
been fortunate enough to get to know

7078
07:22:59,810 --> 07:22:58,080
over the years University of

7079
07:23:02,330 --> 07:22:59,820
Massachusetts Amherst so y'all tell us

7080
07:23:04,010 --> 07:23:02,340
how your launch went today uh it went

7081
07:23:05,090 --> 07:23:04,020
quite well we had some troubles uh

7082
07:23:07,190 --> 07:23:05,100
throughout this year with some of our

7083
07:23:09,230 --> 07:23:07,200
recovery stuff but that all worked

7084
07:23:11,750 --> 07:23:09,240
perfectly today and our apogee was

7085
07:23:13,490 --> 07:23:11,760
within 51 feet of our Target apogee so

7086
07:23:14,930 --> 07:23:13,500
we're quite pleased with that 51 feet

7087
07:23:17,270 --> 07:23:14,940
that's really impressive now you talked

7088
07:23:19,010 --> 07:23:17,280

about kind of getting the road here and

7089

07:23:20,570 --> 07:23:19,020

well really the road getting here

7090

07:23:22,128 --> 07:23:20,580

involves you guys picking up some

7091

07:23:24,230 --> 07:23:22,138

important pieces of Hardware didn't it

7092

07:23:25,910 --> 07:23:24,240

yeah that's right so about two weeks ago

7093

07:23:28,070 --> 07:23:25,920

we had to do a launch down in Maryland

7094

07:23:29,930 --> 07:23:28,080

so it was already quite a hike for

7095

07:23:32,030 --> 07:23:29,940

Massachusetts unfortunately the rocket

7096

07:23:33,708 --> 07:23:32,040

got stuck in a tree and we weren't able

7097

07:23:35,810 --> 07:23:33,718

to recover it on the day of launch so

7098

07:23:37,368 --> 07:23:35,820

actually we picked up the rocket on our

7099

07:23:39,230 --> 07:23:37,378

drive down to Alabama from Massachusetts

7100

07:23:41,090 --> 07:23:39,240

hitting that pit stop along the way to

7101
07:23:43,010 --> 07:23:41,100
finally pick up our rocket well and what

7102
07:23:45,468 --> 07:23:43,020
a beautiful rock it is now you guys have

7103
07:23:48,170 --> 07:23:45,478
any fun Traditions that you do uh

7104
07:23:50,628 --> 07:23:48,180
beforehand uh we definitely do this is a

7105
07:23:53,208 --> 07:23:50,638
story love to tell so about four years

7106
07:23:55,190 --> 07:23:53,218
ago we were heading up to our launch

7107
07:23:56,628 --> 07:23:55,200
site in Northern Vermont and one of the

7108
07:23:59,090 --> 07:23:56,638
teams accidentally crossed across the

7109
07:24:00,830 --> 07:23:59,100
border into Canada and they checked the

7110
07:24:02,930 --> 07:24:00,840
car for anything that they might need to

7111
07:24:04,968 --> 07:24:02,940
confiscate left the entire rocket and

7112
07:24:06,948 --> 07:24:04,978
all the black powder charges the motor

7113
07:24:08,990 --> 07:24:06,958

the only thing they took from us was one

7114

07:24:10,850 --> 07:24:09,000

Clementine so now for good luck before

7115

07:24:13,250 --> 07:24:10,860

each launch we eat Clementines and today

7116

07:24:14,628 --> 07:24:13,260

it worked that's awesome I love the way

7117

07:24:16,610 --> 07:24:14,638

Traditions come together and certainly

7118

07:24:18,048 --> 07:24:16,620

that's one of my favorite stories uh

7119

07:24:19,548 --> 07:24:18,058

anybody back home you want to give a

7120

07:24:21,708 --> 07:24:19,558

shout out to any sponsors any professors

7121

07:24:23,510 --> 07:24:21,718

anybody certainly so we'd like to give a

7122

07:24:25,850 --> 07:24:23,520

big thank you to Collins Aerospace for

7123

07:24:27,170 --> 07:24:25,860

sponsoring as a studio this year as well

7124

07:24:29,208 --> 07:24:27,180

as all the people who donated to the

7125

07:24:31,368 --> 07:24:29,218

team we want to give a thank you to our

7126

07:24:32,570 --> 07:24:31,378

Mentor Howard and to uh someone in the

7127

07:24:34,610 --> 07:24:32,580

department who's helped us a lot her

7128

07:24:36,650 --> 07:24:34,620

name is Chris Langford and finally for

7129

07:24:38,510 --> 07:24:36,660

Jeff Matheson who helped us 3D print a

7130

07:24:40,310 --> 07:24:38,520

lot of our rocket this year that's

7131

07:24:41,750 --> 07:24:40,320

awesome UMass Amherst it's always a

7132

07:24:43,610 --> 07:24:41,760

pleasure to see you all here can't wait

7133

07:24:46,010 --> 07:24:43,620

to see you next year congratulations on

7134

07:24:49,128 --> 07:24:46,020

today's flight that is the University of

7135

07:24:51,170 --> 07:24:49,138

Massachusetts Amherst now to but before

7136

07:24:53,810 --> 07:24:51,180

we close I want to bring in someone very

7137

07:24:56,810 --> 07:24:53,820

a good friend of mine but someone who is

7138

07:24:58,850 --> 07:24:56,820

special and I will say integral to NASA

7139

07:25:01,310 --> 07:24:58,860

student launch if you have participated

7140

07:25:03,170 --> 07:25:01,320

in NASA student launch in the last many

7141

07:25:06,410 --> 07:25:03,180

many years

7142

07:25:08,810 --> 07:25:06,420

15. 14 15 years you know this face you

7143

07:25:10,788 --> 07:25:08,820

know this voice Fred Kepner Fred talk to

7144

07:25:12,590 --> 07:25:10,798

us about from the NASA perspective how

7145

07:25:14,628 --> 07:25:12,600

today went and what student launched and

7146

07:25:16,070 --> 07:25:14,638

why it's so important yeah thank you

7147

07:25:18,890 --> 07:25:16,080

will I wasn't sure if I was supposed to

7148

07:25:20,930 --> 07:25:18,900

take the mic but um today was about as

7149

07:25:22,910 --> 07:25:20,940

perfect as we could expect I mean I mean

7150

07:25:24,830 --> 07:25:22,920

not even expect better than expected

7151
07:25:27,350 --> 07:25:24,840
beautiful weather

7152
07:25:29,330 --> 07:25:27,360
gorgeous launches uh very very

7153
07:25:31,788 --> 07:25:29,340
successful launches a couple

7154
07:25:33,530 --> 07:25:31,798
abnormalities but way fewer than you'd

7155
07:25:35,330 --> 07:25:33,540
see at a normal launch these teams

7156
07:25:37,788 --> 07:25:35,340
worked really really hard for nine

7157
07:25:39,708 --> 07:25:37,798
months they designed these Rockets they

7158
07:25:42,530 --> 07:25:39,718
chose their altitudes in October they

7159
07:25:43,910 --> 07:25:42,540
chose their Motors in January they built

7160
07:25:45,288 --> 07:25:43,920
the rockets in February so they did all

7161
07:25:46,368 --> 07:25:45,298
that they had to tell us how high it was

7162
07:25:48,110 --> 07:25:46,378
going to go before they ever built it

7163
07:25:50,510 --> 07:25:48,120

and flew it and they went through design

7164

07:25:52,070 --> 07:25:50,520

reviews with our NASA Engineers uh

7165

07:25:56,390 --> 07:25:52,080

picking them apart you know all year

7166

07:25:57,830 --> 07:25:56,400

long so it's just so much fun to see the

7167

07:25:59,690 --> 07:25:57,840

end of the year to have them come to

7168

07:26:01,070 --> 07:25:59,700

Huntsville and to launch these Rockets

7169

07:26:03,830 --> 07:26:01,080

with us

7170

07:26:06,170 --> 07:26:03,840

um and we get to watch just the teams

7171

07:26:08,570 --> 07:26:06,180

have such a great experience we're

7172

07:26:10,490 --> 07:26:08,580

really hoping that some of the students

7173

07:26:13,548 --> 07:26:10,500

out there might do student launch in the

7174

07:26:15,468 --> 07:26:13,558

future so I did want to mention that if

7175

07:26:16,548 --> 07:26:15,478

you are a high school first thing you

7176
07:26:17,628 --> 07:26:16,558
want to do for high school or middle

7177
07:26:20,030 --> 07:26:17,638
school if you want to join student

7178
07:26:21,948 --> 07:26:20,040
launch is do the American rocketry

7179
07:26:24,048 --> 07:26:21,958
challenge or rockets for schools there's

7180
07:26:26,330 --> 07:26:24,058
a qualification process and you can

7181
07:26:28,968 --> 07:26:26,340
potentially end up in student launch but

7182
07:26:32,570 --> 07:26:28,978
for universities and colleges any team

7183
07:26:34,250 --> 07:26:32,580
can apply any U.S team can apply we take

7184
07:26:36,468 --> 07:26:34,260
proposals starting in the middle of

7185
07:26:38,868 --> 07:26:36,478
August so we're really looking forward

7186
07:26:40,310 --> 07:26:38,878
to next year since we got to see it's so

7187
07:26:42,170 --> 07:26:40,320
much fun once you come out here and you

7188
07:26:44,270 --> 07:26:42,180

do this you just want to do it again so

7189

07:26:46,490 --> 07:26:44,280

I'm ready for next year

7190

07:26:49,250 --> 07:26:46,500

um so I had a couple things I wanted to

7191

07:26:52,128 --> 07:26:49,260

say Beyond I wanted to greet two people

7192

07:26:53,930 --> 07:26:52,138

for or recognize two people first of all

7193

07:26:56,090 --> 07:26:53,940

um on our team our Logistics coordinator

7194

07:26:59,390 --> 07:26:56,100

Allison chinard has worked really hard

7195

07:27:01,128 --> 07:26:59,400

to put this event together today and

7196

07:27:03,708 --> 07:27:01,138

unfortunately she wasn't here today but

7197

07:27:05,270 --> 07:27:03,718

we wanted to make sure we said hi uh and

7198

07:27:07,430 --> 07:27:05,280

I know she's watching at home so Allison

7199

07:27:08,930 --> 07:27:07,440

thank you so much for working so hard

7200

07:27:12,650 --> 07:27:08,940

this year and making this happen today

7201
07:27:14,150 --> 07:27:12,660
with us and second thing is um there's

7202
07:27:15,530 --> 07:27:14,160
something missing today there was one

7203
07:27:17,208 --> 07:27:15,540
thing missing

7204
07:27:18,590 --> 07:27:17,218
um we have a team that's launched us

7205
07:27:21,048 --> 07:27:18,600
years and years and years Madison West

7206
07:27:22,430 --> 07:27:21,058
High School and their rocketry Mentor Dr

7207
07:27:24,048 --> 07:27:22,440
uh

7208
07:27:25,490 --> 07:27:24,058
Pavel Pincus

7209
07:27:27,650 --> 07:27:25,500
um unfortunately passed away a couple

7210
07:27:29,090 --> 07:27:27,660
months ago

7211
07:27:31,968 --> 07:27:29,100
so yeah we

7212
07:27:34,250 --> 07:27:31,978
we missed Pavel but we launched in his

7213
07:27:36,048 --> 07:27:34,260

honor today and we look forward to

7214

07:27:38,270 --> 07:27:36,058

seeing some of you folks that are online

7215

07:27:40,190 --> 07:27:38,280

come and launch with us in the future

7216

07:27:42,948 --> 07:27:40,200

absolutely well and Fred on behalf of

7217

07:27:44,750 --> 07:27:42,958

all of us your work in in the work of

7218

07:27:46,788 --> 07:27:44,760

you and Zach and John and the entire

7219

07:27:48,048 --> 07:27:46,798

student launch Team and our partners

7220

07:27:49,610 --> 07:27:48,058

with the National Association for

7221

07:27:50,930 --> 07:27:49,620

rocketry that's why we get to come out

7222

07:27:52,310 --> 07:27:50,940

that's why we get to bring you a live

7223

07:27:54,230 --> 07:27:52,320

stream that's why these kids get to

7224

07:27:56,150 --> 07:27:54,240

launch rockets and it is no small fee

7225

07:27:58,128 --> 07:27:56,160

and no small effort that you guys do so

7226

07:27:59,990 --> 07:27:58,138

on behalf of all of us thank you for

7227

07:28:01,548 --> 07:28:00,000

what you guys do and we're looking

7228

07:28:02,868 --> 07:28:01,558

forward to next year I can't wait can't

7229

07:28:04,250 --> 07:28:02,878

wait to see what payload challenge you

7230

07:28:05,270 --> 07:28:04,260

throw at the University teams can't wait

7231

07:28:07,548 --> 07:28:05,280

to see what these High School Middle

7232

07:28:10,910 --> 07:28:07,558

teams uh come up with for their payloads

7233

07:28:12,890 --> 07:28:10,920

so that that is Fred Kepner our Mainstay

7234

07:28:14,930 --> 07:28:12,900

our anchor for NASA student launch and

7235

07:28:17,030 --> 07:28:14,940

everyone that will wrap up our coverage

7236

07:28:19,250 --> 07:28:17,040

for the NASA student launch however that

7237

07:28:21,350 --> 07:28:19,260

is not all there is for these teams for

7238

07:28:23,030 --> 07:28:21,360

they have data to review they have a

7239

07:28:24,890 --> 07:28:23,040

report to write and most importantly we

7240

07:28:26,990 --> 07:28:24,900

have some awards to give out we do we do

7241

07:28:28,490 --> 07:28:27,000

the award ceremony will be live streamed

7242

07:28:30,590 --> 07:28:28,500

on the same channels that you watched it

7243

07:28:33,288 --> 07:28:30,600

on today which is our Marshall space

7244

07:28:35,208 --> 07:28:33,298

flight center YouTube channel and our

7245

07:28:37,730 --> 07:28:35,218

student launch Facebook page that will

7246

07:28:40,128 --> 07:28:37,740

be June 6th absolutely so be sure to

7247

07:28:41,690 --> 07:28:40,138

stay along follow along with us one more

7248

07:28:44,090 --> 07:28:41,700

thing yeah I'm sorry I neglect the

7249

07:28:46,250 --> 07:28:44,100

dimension we had 46 teams here launching

7250

07:28:47,868 --> 07:28:46,260

today but we've got uh some teams at

7251

07:28:50,090 --> 07:28:47,878

home that weren't able to make it for

7252

07:28:52,250 --> 07:28:50,100

whatever reason logistically and they

7253

07:28:53,750 --> 07:28:52,260

are launching at home they also did a

7254

07:28:55,190 --> 07:28:53,760

great job and we're looking forward to

7255

07:28:56,510 --> 07:28:55,200

getting their flight results so if

7256

07:28:58,010 --> 07:28:56,520

you're working with one of those teams

7257

07:29:00,530 --> 07:28:58,020

encourage them as they go through their

7258

07:29:02,690 --> 07:29:00,540

final launches absolutely so in that so

7259

07:29:04,368 --> 07:29:02,700

as we mentioned that does not everything

7260

07:29:06,350 --> 07:29:04,378

doesn't end here today so be sure to

7261

07:29:08,570 --> 07:29:06,360

continue to follow us at Nasa student

7262

07:29:10,250 --> 07:29:08,580

launch on Facebook and Twitter we're

7263

07:29:11,930 --> 07:29:10,260

going to bring you uh highlights we're

7264

07:29:13,968 --> 07:29:11,940

going to bring you results we're going

7265

07:29:16,128 --> 07:29:13,978

to bring you next year's competition and

7266

07:29:17,868 --> 07:29:16,138

be sure to stay with us with the art of

7267

07:29:19,250 --> 07:29:17,878

NASA Artemis student challenges as we

7268

07:29:21,590 --> 07:29:19,260

have the host the human exploration

7269

07:29:22,610 --> 07:29:21,600

Rover challenge next weekend at the U.S

7270

07:29:24,170 --> 07:29:22,620

Space and Rocket Center here in

7271

07:29:26,208 --> 07:29:24,180

Huntsville however that will wrap us

7272

07:29:28,128 --> 07:29:26,218

here from BRAC farms in Tony Alabama for

7273

07:29:29,930 --> 07:29:28,138

the 2023 NASA student launch competition

7274

07:29:31,190 --> 07:29:29,940

thank you for joining us and most

7275

07:29:33,110 --> 07:29:31,200

importantly thank you for being a part

