

An astronaut in a white spacesuit is shown from the chest up, floating in space. The astronaut's helmet is reflective, showing some internal details. In the background, the Earth is visible as a large, curved horizon with blue oceans and brown/green landmasses. A piece of equipment, possibly a rover or lander component, is attached to the astronaut's suit.

2023
HUMAN
EXPLORATION
ROVER CHALLENGE
LIVE

7:30 AM CDT | APRIL 21 & 22

1
00:00:04,480 --> 00:00:21,710
[Music]

2
00:00:21,720 --> 00:00:55,930
foreign

3
00:01:33,649 --> 00:01:03,480
[Music]

4
00:01:33,659 --> 00:01:55,590
foreign

5
00:01:55,600 --> 00:02:12,350
[Music]

6
00:02:18,949 --> 00:02:15,530
good morning and welcome to day two of

7
00:02:21,710 --> 00:02:18,959
NASA's live coverage of the 2023 human

8
00:02:23,570 --> 00:02:21,720
exploration Rover challenge we are here

9
00:02:25,850 --> 00:02:23,580
at the U.S Space and Rocket Center in

10
00:02:27,410 --> 00:02:25,860
Huntsville Alabama I'm Melissa Lee with

11
00:02:30,229 --> 00:02:27,420
the space launch system Communications

12
00:02:32,390 --> 00:02:30,239
team and I'm Lance Davis with NASA's

13
00:02:34,610 --> 00:02:32,400

Marshall space flight center yeah we're

14

00:02:36,830 --> 00:02:34,620

super excited to be here today this is

15

00:02:38,809 --> 00:02:36,840

day two of the competition we had teams

16

00:02:40,850 --> 00:02:38,819

here yesterday compete and they're back

17

00:02:41,690 --> 00:02:40,860

other round s Lance can you tell us a

18

00:02:45,110 --> 00:02:41,700

little bit more about the competition

19

00:02:47,570 --> 00:02:45,120

this year well it's our 29th anniversary

20

00:02:50,150 --> 00:02:47,580

this is the first time that we have

21

00:02:52,729 --> 00:02:50,160

brought this challenge in person since

22

00:02:54,949 --> 00:02:52,739

before the pandemic and there is a new

23

00:02:57,350 --> 00:02:54,959

challenge course yes we're on a new

24

00:02:59,210 --> 00:02:57,360

course this year rookies and veterans

25

00:03:00,949 --> 00:02:59,220

are on a completely new course at the

26
00:03:03,410 --> 00:03:00,959
aviation challenge here at the U.S Space

27
00:03:05,030 --> 00:03:03,420
and Rocket Center we're excited the

28
00:03:06,290 --> 00:03:05,040
teams are excited you can hear the fans

29
00:03:08,509 --> 00:03:06,300
kind of in the background a little bit

30
00:03:10,970 --> 00:03:08,519
and we actually have the first Rover

31
00:03:12,710 --> 00:03:10,980
here ready to go so we're gonna pass it

32
00:03:22,729 --> 00:03:12,720
on to our colleague Beth to talk a

33
00:03:28,130 --> 00:03:25,970
good morning everyone good morning Kevin

34
00:03:30,830 --> 00:03:28,140
Alyssa it is a great day to have a great

35
00:03:32,509 --> 00:03:30,840
race I am here with the first team on

36
00:03:34,130 --> 00:03:32,519
the starting lineup can you tell me your

37
00:03:36,110 --> 00:03:34,140
name and what school you're from my name

38
00:03:38,390 --> 00:03:36,120

is Kyler Gilman I'm from Academy of Arts

39

00:03:40,550 --> 00:03:38,400

careers technology from Reno Nevada

40

00:03:42,649 --> 00:03:40,560

fantastic and you guys had a wonderful

41

00:03:44,690 --> 00:03:42,659

run yesterday you kicked it off you did

42

00:03:46,970 --> 00:03:44,700

really well is there anything changed

43

00:03:48,890 --> 00:03:46,980

overnight about your run we changed our

44

00:03:50,270 --> 00:03:48,900

gear ratio this is our front end was a

45

00:03:51,710 --> 00:03:50,280

little too high so we changed it for our

46

00:03:53,570 --> 00:03:51,720

lower gear ratio so we can have more

47

00:03:56,690 --> 00:03:53,580

torque on the obstacles especially the

48

00:03:57,949 --> 00:03:56,700

first task and the rocks in the end and

49

00:03:59,690 --> 00:03:57,959

are there any tasks that you're trying

50

00:04:01,009 --> 00:03:59,700

to tackle today that you may not have

51
00:04:03,410 --> 00:04:01,019
tackled

52
00:04:05,149 --> 00:04:03,420
uh actually yeah we're trying to do the

53
00:04:05,930 --> 00:04:05,159
eight foot and the u-shape because we

54
00:04:08,149 --> 00:04:05,940
feel like we're a little bit more

55
00:04:09,710 --> 00:04:08,159
prepared and we know what to expect we

56
00:04:11,570 --> 00:04:09,720
also are a little bit more prepared to

57
00:04:14,089 --> 00:04:11,580
do the cave to actually get a better run

58
00:04:15,890 --> 00:04:14,099
at that fantastic and I wish you guys

59
00:04:17,870 --> 00:04:15,900
the best it's going to be a great day

60
00:04:22,370 --> 00:04:17,880
have a great race and we'll get you guys

61
00:04:30,650 --> 00:04:24,650
all right we actually have a team from

62
00:04:34,129 --> 00:04:32,689
yes so we have you here can you tell me

63
00:04:36,350 --> 00:04:34,139

your name and what's your role on the

64

00:04:38,090 --> 00:04:36,360

team so I'm Max listening I'm the team

65

00:04:40,490 --> 00:04:38,100

safety officer

66

00:04:42,830 --> 00:04:40,500

uh and I'm Marcus Matthews I'm the team

67

00:04:44,510 --> 00:04:42,840

lead for the Rover

68

00:04:46,189 --> 00:04:44,520

great and can you tell us a little bit

69

00:04:48,409 --> 00:04:46,199

more of being a high school team what's

70

00:04:49,850 --> 00:04:48,419

a challenge with that so definitely a

71

00:04:52,790 --> 00:04:49,860

challenge with being a high school team

72

00:04:55,370 --> 00:04:52,800

is our limited time we only have the

73

00:04:57,950 --> 00:04:55,380

normal time of the school day to work on

74

00:05:00,290 --> 00:04:57,960

the Rover at any time other than that is

75

00:05:02,510 --> 00:05:00,300

completely extracurricular and we all do

76

00:05:05,150 --> 00:05:02,520

on our own time as well as our advisors

77

00:05:06,950 --> 00:05:05,160

they're they're volunteers and we super

78

00:05:08,570 --> 00:05:06,960

appreciate them coming out and using

79

00:05:11,090 --> 00:05:08,580

their weekend days and

80

00:05:14,210 --> 00:05:11,100

full time to help us with the Rover

81

00:05:16,730 --> 00:05:14,220

so this is day two of the challenge so

82

00:05:17,870 --> 00:05:16,740

talk to us a little bit about uh what

83

00:05:20,570 --> 00:05:17,880

you want to do differently from

84

00:05:22,909 --> 00:05:20,580

yesterday uh so yesterday one of the

85

00:05:24,529 --> 00:05:22,919

main mechanical changes that we made uh

86

00:05:26,270 --> 00:05:24,539

we had to get our front athlete a little

87

00:05:28,010 --> 00:05:26,280

bit lower because he was struggling with

88

00:05:32,090 --> 00:05:28,020

torque uh through some of the obstacles

89

00:05:35,689 --> 00:05:34,010

do some site modifications to our

90

00:05:37,610 --> 00:05:35,699

collection tool because on about five

91

00:05:39,590 --> 00:05:37,620

different occasions it got caught in our

92

00:05:40,969 --> 00:05:39,600

Rover which lost us a lot of time on the

93

00:05:43,670 --> 00:05:40,979

Excursion

94

00:05:45,770 --> 00:05:43,680

good stuff I see I see well tell us a

95

00:05:48,469 --> 00:05:45,780

little bit about what motivated you all

96

00:05:51,409 --> 00:05:48,479

to want to be a part of this challenge

97

00:05:52,550 --> 00:05:51,419

um our school has done uh the herc back

98

00:05:54,830 --> 00:05:52,560

when it was still the moon buggy

99

00:05:56,689 --> 00:05:54,840

competition

100

00:05:58,730 --> 00:05:56,699

it's sort of a staple of our engineering

101
00:06:00,890 --> 00:05:58,740
program at our high school when you go

102
00:06:03,529 --> 00:06:00,900
into engineering you know of Rover and

103
00:06:05,029 --> 00:06:03,539
so it's definitely definitely a very

104
00:06:06,950 --> 00:06:05,039
intriguing for all the kids there and so

105
00:06:09,590 --> 00:06:06,960
we all love to be a part of the team

106
00:06:11,810 --> 00:06:09,600
awesome awesome and I believe that you

107
00:06:13,610 --> 00:06:11,820
guys are unofficially on the uh first

108
00:06:15,050 --> 00:06:13,620
spot for the High School Division can

109
00:06:16,610 --> 00:06:15,060
you tell us like what's your mindset

110
00:06:18,770 --> 00:06:16,620
with that are you guys excited or just

111
00:06:21,830 --> 00:06:18,780
trying to stick to it we're very excited

112
00:06:28,610 --> 00:06:21,840
to be uh in that top position however we

113
00:06:32,689 --> 00:06:30,830

not feel that anyone has a chance of

114

00:06:35,510 --> 00:06:32,699

winning this competition here today we

115

00:06:37,790 --> 00:06:35,520

are not gonna stay on top for certain

116

00:06:41,150 --> 00:06:37,800

well speaking of that is it any

117

00:06:44,210 --> 00:06:41,160

particular team that has Maybe I

118

00:06:46,189 --> 00:06:44,220

impressed you or inspired you or

119

00:06:49,070 --> 00:06:46,199

um I do definitely think we have our eye

120

00:06:50,930 --> 00:06:49,080

on a couple teams uh Parish Rover being

121

00:06:52,370 --> 00:06:50,940

one of them in previous years we've

122

00:06:54,590 --> 00:06:52,380

always had some good competition with

123

00:06:56,809 --> 00:06:54,600

them uh and they put in a real a really

124

00:06:59,150 --> 00:06:56,819

solid concern

125

00:07:00,710 --> 00:06:59,160

we're definitely keep an eye on them uh

126
00:07:03,110 --> 00:07:00,720
and we're gonna see what they do in this

127
00:07:04,850 --> 00:07:03,120
competition it's still anyone's game

128
00:07:05,990 --> 00:07:04,860
and I have to ask can you tell me a

129
00:07:08,930 --> 00:07:06,000
little bit more about the shirts you

130
00:07:10,670 --> 00:07:08,940
have oh yeah so these shirts uh as Mark

131
00:07:12,409 --> 00:07:10,680
did mention yesterday they are an old

132
00:07:14,330 --> 00:07:12,419
design that we had a previous student

133
00:07:16,010 --> 00:07:14,340
who competed in this competition did

134
00:07:18,409 --> 00:07:16,020
create and we really wanted to bring

135
00:07:20,930 --> 00:07:18,419
that design back we love that design and

136
00:07:23,150 --> 00:07:20,940
we have these here these wrenches as our

137
00:07:25,610 --> 00:07:23,160
bones and that is for our motto that

138
00:07:28,249 --> 00:07:25,620

engineering is in our bones

139

00:07:29,689 --> 00:07:28,259

I love that that's so Innovative so tell

140

00:07:31,370 --> 00:07:29,699

me is there anything that you guys have

141

00:07:33,290 --> 00:07:31,380

changed between day one and day two

142

00:07:35,029 --> 00:07:33,300

going into this competition so we have

143

00:07:36,830 --> 00:07:35,039

talked about the drivetrain however

144

00:07:38,390 --> 00:07:36,840

about the collections tool that is a

145

00:07:40,730 --> 00:07:38,400

very big difference from Excursion day

146

00:07:42,830 --> 00:07:40,740

one to day two uh in the our first

147

00:07:45,110 --> 00:07:42,840

Excursion we had a few issues with cable

148

00:07:47,089 --> 00:07:45,120

management and we had to change some

149

00:07:48,950 --> 00:07:47,099

things for example we had to tie it up

150

00:07:50,689 --> 00:07:48,960

real nice because our cables that get

151
00:07:54,110 --> 00:07:50,699
caught on the wheel in between second

152
00:07:58,189 --> 00:07:56,270
designed for the second task but when

153
00:07:59,629 --> 00:07:58,199
looking at the footage it looked like we

154
00:08:01,309 --> 00:07:59,639
didn't actually need it and the fulcrum

155
00:08:03,290 --> 00:08:01,319
seemed to be more in the way than

156
00:08:04,670 --> 00:08:03,300
actually helping us so we cut it off and

157
00:08:05,990 --> 00:08:04,680
we made that Improvement and that's

158
00:08:06,890 --> 00:08:06,000
going to give our athletes a lot more

159
00:08:07,969 --> 00:08:06,900
wiggle room with room with the

160
00:08:09,710 --> 00:08:07,979
collections

161
00:08:11,570 --> 00:08:09,720
very cool yeah and for anyone watching

162
00:08:14,089 --> 00:08:11,580
these students do have to go through 10

163
00:08:16,249 --> 00:08:14,099

obstacles and five tasks and those tasks

164

00:08:17,930 --> 00:08:16,259

include a liquid collection sample

165

00:08:19,490 --> 00:08:17,940

retrieval so can you tell me a little

166

00:08:21,050 --> 00:08:19,500

bit more about how that went for you

167

00:08:23,450 --> 00:08:21,060

yesterday those liquid collection

168

00:08:24,830 --> 00:08:23,460

samples so we are very happy with the

169

00:08:27,710 --> 00:08:24,840

liquid collection samples that we got

170

00:08:30,110 --> 00:08:27,720

yesterday we did successfully sample the

171

00:08:32,510 --> 00:08:30,120

task 2 The Underground liquid sample

172

00:08:34,850 --> 00:08:32,520

which is lifting a 15 pound lid however

173

00:08:37,430 --> 00:08:34,860

today we're planning to do a lot more

174

00:08:39,829 --> 00:08:37,440

tasks tasks are weighted very heavily so

175

00:08:41,329 --> 00:08:39,839

we're going for as far as four tasks

176
00:08:42,769 --> 00:08:41,339
today

177
00:08:45,710 --> 00:08:42,779
great

178
00:08:48,410 --> 00:08:45,720
well is there anybody that uh you want

179
00:08:50,090 --> 00:08:48,420
to say thank you to I know it's a lot of

180
00:08:51,650 --> 00:08:50,100
work behind behind putting all this

181
00:08:53,150 --> 00:08:51,660
together you probably have some support

182
00:08:55,130 --> 00:08:53,160
you want to talk a little bit about that

183
00:08:56,810 --> 00:08:55,140
I do definitely want to say thank you to

184
00:08:59,389 --> 00:08:56,820
some of our Community Partners back home

185
00:09:01,790 --> 00:08:59,399
all the staff of aact for supporting the

186
00:09:03,829 --> 00:09:01,800
Rover project uh the University of

187
00:09:06,170 --> 00:09:03,839
Nevada Reno and the Nevada space Grand

188
00:09:07,850 --> 00:09:06,180

Consortium as well as Truckee Meadows

189

00:09:09,769 --> 00:09:07,860

Community College for ladies fabricate

190

00:09:13,490 --> 00:09:09,779

in their facilities and then Doughboys

191

00:09:18,530 --> 00:09:15,530

do you guys have any fun Traditions or

192

00:09:21,050 --> 00:09:18,540

cheers even that you want to talk about

193

00:09:23,269 --> 00:09:21,060

yeah so we definitely do the standard

194

00:09:24,829 --> 00:09:23,279

things we do a lot of walnuts together

195

00:09:26,750 --> 00:09:24,839

that's a very big part of what we do

196

00:09:28,370 --> 00:09:26,760

here today

197

00:09:30,050 --> 00:09:28,380

you could have seen us at the tent over

198

00:09:31,790 --> 00:09:30,060

there all jumping to make sure we were

199

00:09:34,190 --> 00:09:31,800

ready to go this morning so that's

200

00:09:36,290 --> 00:09:34,200

definitely one of our traditions

201
00:09:37,970 --> 00:09:36,300
wonderful and and while we're still

202
00:09:40,610 --> 00:09:37,980
getting ready here um is there anything

203
00:09:42,110 --> 00:09:40,620
that you're super excited for today to

204
00:09:44,630 --> 00:09:42,120
see what your team does

205
00:09:46,730 --> 00:09:44,640
oh I'm really excited to see in

206
00:09:48,590 --> 00:09:46,740
particular how the collections go I me

207
00:09:50,210 --> 00:09:48,600
personally I have a very big stake in

208
00:09:52,490 --> 00:09:50,220
the collection so I'm more interested in

209
00:09:55,190 --> 00:09:52,500
those and I feel like especially this

210
00:09:57,590 --> 00:09:55,200
competition it's a very big deal they're

211
00:09:59,870 --> 00:09:57,600
weighted uh heavily so I want to see

212
00:10:01,790 --> 00:09:59,880
those personally and

213
00:10:03,889 --> 00:10:01,800

um I want to see

214

00:10:05,150 --> 00:10:03,899

um what color the liquids are in the

215

00:10:07,670 --> 00:10:05,160

collections we didn't get to see too

216

00:10:10,070 --> 00:10:07,680

many yesterday and I'm I'm curious to

217

00:10:12,110 --> 00:10:10,080

see how we all do

218

00:10:14,150 --> 00:10:12,120

and just a reminder we are here at the

219

00:10:16,850 --> 00:10:14,160

U.S Space and Rocket Center so I have to

220

00:10:18,050 --> 00:10:16,860

ask have you guys toured the center uh

221

00:10:19,850 --> 00:10:18,060

how do you like Huntsville do you like

222

00:10:22,070 --> 00:10:19,860

being in Huntsville oh so far I love

223

00:10:25,310 --> 00:10:22,080

Huntsville we come from Reno Nevada and

224

00:10:28,430 --> 00:10:25,320

this place even upon Landing was so much

225

00:10:30,769 --> 00:10:28,440

Greener so beautiful so full of life

226

00:10:32,570 --> 00:10:30,779

um and Reno does have his charm but this

227

00:10:35,090 --> 00:10:32,580

is such a different place for us and we

228

00:10:40,370 --> 00:10:38,030

well let me just ask you this

229

00:10:42,230 --> 00:10:40,380

um this is a big competition or a big

230

00:10:45,530 --> 00:10:42,240

challenge I should say can you just

231

00:10:46,970 --> 00:10:45,540

describe like your feelings like are you

232

00:10:49,430 --> 00:10:46,980

nervous talk to us a little bit about

233

00:10:50,630 --> 00:10:49,440

that uh I definitely think I kind of

234

00:10:52,130 --> 00:10:50,640

speak for the whole team when I say

235

00:10:53,810 --> 00:10:52,140

we're all nervous

236

00:10:56,690 --> 00:10:53,820

um but we put in a really good run

237

00:10:58,550 --> 00:10:56,700

yesterday and so coming in today's run

238

00:11:00,290 --> 00:10:58,560

we're confident that we're gonna walk

239

00:11:01,970 --> 00:11:00,300

out with the result that we like whether

240

00:11:03,710 --> 00:11:01,980

we keep tomorrow's run or we keep

241

00:11:05,630 --> 00:11:03,720

today's run the team's very happy with

242

00:11:07,190 --> 00:11:05,640

what we did we spent a lot of

243

00:11:09,110 --> 00:11:07,200

project and we were proud of the result

244

00:11:10,370 --> 00:11:09,120

yesterday and so we're gonna go home

245

00:11:13,130 --> 00:11:10,380

proud

246

00:11:15,650 --> 00:11:13,140

and do you have any advice for uh

247

00:11:17,810 --> 00:11:15,660

perhaps schools who might want to

248

00:11:21,110 --> 00:11:17,820

participate in the future any any words

249

00:11:23,150 --> 00:11:21,120

of wisdom no idea is a bad idea if you

250

00:11:25,190 --> 00:11:23,160

have an idea throw it out there have

251
00:11:26,870 --> 00:11:25,200
some other people look at it and you'll

252
00:11:29,509 --> 00:11:26,880
come up with something amazing

253
00:11:31,190 --> 00:11:29,519
thank you

254
00:11:33,230 --> 00:11:31,200
have any advice for students that might

255
00:11:35,810 --> 00:11:33,240
want to go into a stem field in the

256
00:11:38,269 --> 00:11:35,820
future yeah so as a stem student myself

257
00:11:40,190 --> 00:11:38,279
we have a lot of fun in our classes and

258
00:11:41,389 --> 00:11:40,200
I would recommend that no matter what

259
00:11:43,430 --> 00:11:41,399
you're doing no matter how difficult it

260
00:11:46,069 --> 00:11:43,440
is try to have fun with it be creative

261
00:11:47,930 --> 00:11:46,079
do what you want to do

262
00:11:48,949 --> 00:11:47,940
I love that that's some great advice

263
00:11:50,389 --> 00:11:48,959

there

264

00:11:52,310 --> 00:11:50,399

um one more thing about the stem

265

00:11:54,470 --> 00:11:52,320

engagement and things is actually that's

266

00:11:56,810 --> 00:11:54,480

a requirement for this Rover challenges

267

00:11:57,769 --> 00:11:56,820

to engage students in the stem field so

268

00:11:59,750 --> 00:11:57,779

can you tell me a little bit more about

269

00:12:01,190 --> 00:11:59,760

how your team has done that yeah

270

00:12:03,110 --> 00:12:01,200

yeah we've been visiting our local

271

00:12:04,910 --> 00:12:03,120

middle schools and reconnecting with

272

00:12:07,069 --> 00:12:04,920

some of our own old teachers and some

273

00:12:09,410 --> 00:12:07,079

teachers that have reached out to us and

274

00:12:11,990 --> 00:12:09,420

we have been going over there doing a

275

00:12:14,030 --> 00:12:12,000

presentation and we have been showing

276

00:12:16,009 --> 00:12:14,040

off our Rover the parts of our

277

00:12:18,230 --> 00:12:16,019

furthermore to get them a little

278

00:12:21,050 --> 00:12:18,240

in stem field and not just the Rover

279

00:12:23,329 --> 00:12:21,060

we've been having some science lessons

280

00:12:24,710 --> 00:12:23,339

with a little little science labs with

281

00:12:27,350 --> 00:12:24,720

popsicle sticks and the students

282

00:12:29,990 --> 00:12:27,360

absolutely loved it we made

283

00:12:31,730 --> 00:12:30,000

it and they had such a blast with that

284

00:12:33,290 --> 00:12:31,740

great and we're still getting ready um

285

00:12:35,449 --> 00:12:33,300

for the race today so I just want to

286

00:12:37,730 --> 00:12:35,459

remind everyone who's watching that this

287

00:12:39,530 --> 00:12:37,740

is not just a race do you do collect

288

00:12:40,730 --> 00:12:39,540

points through these obstacles through

289

00:12:43,129 --> 00:12:40,740

the tasks that you're going through

290

00:12:47,870 --> 00:12:43,139

today so tell us a little bit more about

291

00:12:52,550 --> 00:12:50,870

with so I have to say our athletes are

292

00:12:53,930 --> 00:12:52,560

amazing with their intuition and

293

00:12:56,030 --> 00:12:53,940

yesterday uh

294

00:12:58,250 --> 00:12:56,040

calls that

295

00:13:00,769 --> 00:12:58,260

that we all agree with these calls all

296

00:13:02,569 --> 00:13:00,779

right our front athlete especially uh

297

00:13:04,129 --> 00:13:02,579

adults from obstacles that we now

298

00:13:06,769 --> 00:13:04,139

sitting here don't think we could have

299

00:13:08,990 --> 00:13:06,779

completed and I'm very happy with how we

300

00:13:10,550 --> 00:13:09,000

did and as far as obstacles go I believe

301
00:13:12,350 --> 00:13:10,560
we're doing something very similar to

302
00:13:14,150 --> 00:13:12,360
the Excursion one and the biggest

303
00:13:16,190 --> 00:13:14,160
differences with the tasks

304
00:13:17,930 --> 00:13:16,200
great thank you well I believe we are

305
00:13:19,250 --> 00:13:17,940
about to get started here so thank you

306
00:13:20,389 --> 00:13:19,260
for joining us in the tent and we're

307
00:13:21,769 --> 00:13:20,399
going to talk to you guys a little bit

308
00:13:24,829 --> 00:13:21,779
more but y'all can go ahead and join

309
00:13:26,449 --> 00:13:24,839
your team and go cheer them on thank you

310
00:13:29,509 --> 00:13:26,459
and so I just want to remind everybody

311
00:13:32,870 --> 00:13:29,519
that is watching online

312
00:13:34,370 --> 00:13:32,880
lines on social media and uh we are on

313
00:13:36,590 --> 00:13:34,380

Facebook and Twitter you can join the

314

00:13:38,750 --> 00:13:36,600

conversation there you can also use the

315

00:13:41,569 --> 00:13:38,760

hashtag nafsa herc if you want to ask us

316

00:13:43,069 --> 00:13:41,579

some questions we'll try

317

00:13:45,410 --> 00:13:43,079

we'll try to broadcast as

318

00:13:47,569 --> 00:13:45,420

people uh NASA social media is a great

319

00:13:49,009 --> 00:13:47,579

place not only to get updates about the

320

00:13:51,410 --> 00:13:49,019

event today but just to engage with

321

00:13:53,389 --> 00:13:51,420

others around the world we are streaming

322

00:13:55,009 --> 00:13:53,399

on YouTube and Facebook so if you have

323

00:13:57,769 --> 00:13:55,019

any questions you can also drop those in

324

00:13:59,629 --> 00:13:57,779

the comments below and we also can you

325

00:14:01,009 --> 00:13:59,639

tell us more about uh the teams that we

326

00:14:02,569 --> 00:14:01,019

have today Lance can you tell us a

327

00:14:06,350 --> 00:14:02,579

little bit more about what's that like

328

00:14:09,170 --> 00:14:06,360

oh I believe we have 48 teams uh from

329

00:14:11,389 --> 00:14:09,180

across the country I believe uh 16 of

330

00:14:13,970 --> 00:14:11,399

them are from the United States and I

331

00:14:16,250 --> 00:14:13,980

think we have uh eight uh countries

332

00:14:18,949 --> 00:14:16,260

represented yeah so

333

00:14:20,329 --> 00:14:18,959

um District of Columbia Puerto Rico is

334

00:14:24,050 --> 00:14:20,339

here I mean students from across the

335

00:14:26,329 --> 00:14:24,060

world really yes yes very exciting 29th

336

00:14:28,009 --> 00:14:26,339

year that we've mentioned before

337

00:14:30,889 --> 00:14:28,019

super excited like we also mentioned

338

00:14:32,810 --> 00:14:30,899

before we have eight rookie teams and

339

00:14:34,550 --> 00:14:32,820

but being a rookie is not necessarily a

340

00:14:36,949 --> 00:14:34,560

bad thing this year because this is a

341

00:14:38,690 --> 00:14:36,959

new course so there's no Advantage for

342

00:14:40,910 --> 00:14:38,700

veteran teams this year

343

00:14:42,290 --> 00:14:40,920

these obstacles these tasks are a little

344

00:14:45,230 --> 00:14:42,300

different than we've seen in past years

345

00:14:47,269 --> 00:14:45,240

so and it's just good to be back because

346

00:14:49,430 --> 00:14:47,279

because you know the pandemic put you

347

00:14:51,170 --> 00:14:49,440

know a hold on this competition or this

348

00:14:53,389 --> 00:14:51,180

challenging person and I think

349

00:14:56,569 --> 00:14:53,399

everybody's just excited that we're here

350

00:14:58,910 --> 00:14:56,579

live and in person great I believe we do

351

00:15:01,670 --> 00:14:58,920

have another interview coming up so

352

00:15:06,410 --> 00:15:04,370

bring into a love to see that

353

00:15:08,290 --> 00:15:06,420

great can you tell me your name and what

354

00:15:10,970 --> 00:15:08,300

school you're from sure

355

00:15:13,189 --> 00:15:10,980

and I go to Von College of everyone

356

00:15:14,689 --> 00:15:13,199

addicts and technology in New York very

357

00:15:16,310 --> 00:15:14,699

cool and can you tell

358

00:15:22,670 --> 00:15:16,320

this is

359

00:15:24,769 --> 00:15:22,680

the wheel without a Rover

360

00:15:27,170 --> 00:15:24,779

um so fun thing we got three months to

361

00:15:29,990 --> 00:15:27,180

design and build the Rover because we

362

00:15:31,550 --> 00:15:30,000

are a very uh new club at our college

363

00:15:33,650 --> 00:15:31,560

and we have to go through all the

364

00:15:36,230 --> 00:15:33,660

paperwork to establish the cloud before

365

00:15:38,329 --> 00:15:36,240

even competing so that's how it works in

366

00:15:40,430 --> 00:15:38,339

our college so we got it in December the

367

00:15:42,350 --> 00:15:40,440

the green light and we got three months

368

00:15:44,269 --> 00:15:42,360

to you know come up with that design uh

369

00:15:47,090 --> 00:15:44,279

build it and so this is what we did for

370

00:15:50,689 --> 00:15:47,100

the wheel our solution so we got you

371

00:15:52,310 --> 00:15:50,699

know the Hop we got like metal spokes uh

372

00:15:54,829 --> 00:15:52,320

on the inside and then we have this

373

00:15:58,189 --> 00:15:54,839

robber and aluminum sheets

374

00:16:00,829 --> 00:15:58,199

um that like kind of press and uh we did

375

00:16:02,750 --> 00:16:00,839

the the shape of a wheel and then we

376

00:16:06,230 --> 00:16:02,760

realized it could be probably a little

377

00:16:08,329 --> 00:16:06,240

weak so we added wood on the sides so

378

00:16:10,189 --> 00:16:08,339

that was our end or in process it works

379

00:16:12,650 --> 00:16:10,199

really good it's like oh it might not

380

00:16:14,870 --> 00:16:12,660

but like it does it's like probably the

381

00:16:16,910 --> 00:16:14,880

the specific like the the hardest thing

382

00:16:18,949 --> 00:16:16,920

on the Rover like the most durable thing

383

00:16:21,710 --> 00:16:18,959

great great and did you guys compete

384

00:16:24,710 --> 00:16:21,720

yesterday so we couldn't do it we went

385

00:16:28,069 --> 00:16:24,720

through the ER and mrr

386

00:16:29,870 --> 00:16:28,079

um the safety processes and all that but

387

00:16:32,449 --> 00:16:29,880

um we had some issues with the steering

388

00:16:34,370 --> 00:16:32,459

system so even before getting to the

389

00:16:36,650 --> 00:16:34,380

course uh we decided that you know it's

390

00:16:38,870 --> 00:16:36,660

not very safe and we want to make sure

391

00:16:41,150 --> 00:16:38,880

our Pilots are safe so we were working

392

00:16:42,170 --> 00:16:41,160

yesterday and we are working right now

393

00:16:44,569 --> 00:16:42,180

on

394

00:16:45,410 --> 00:16:44,579

um fixing those issues and tried to do

395

00:16:47,090 --> 00:16:45,420

it today

396

00:16:48,889 --> 00:16:47,100

are you excited to see how this wheel is

397

00:16:50,269 --> 00:16:48,899

going to perform today yes so very

398

00:16:52,430 --> 00:16:50,279

excited very excited to see how

399

00:16:55,009 --> 00:16:52,440

everything actually works

400

00:16:57,110 --> 00:16:55,019

um we want to see the interaction of all

401
00:17:00,069 --> 00:16:57,120
our systems we because we had a very

402
00:17:03,350 --> 00:17:00,079
particular and interesting

403
00:17:05,210 --> 00:17:03,360
interesting um process so we did all the

404
00:17:07,189 --> 00:17:05,220
subsystems benefit

405
00:17:09,710 --> 00:17:07,199
um different moments along the way and

406
00:17:12,650 --> 00:17:09,720
different people took part of those

407
00:17:13,730 --> 00:17:12,660
subsystems like as the leads so want to

408
00:17:15,590 --> 00:17:13,740
see the direction of

409
00:17:17,630 --> 00:17:15,600
action during the conversation

410
00:17:20,510 --> 00:17:17,640
and in case you didn't hear that our

411
00:17:22,010 --> 00:17:20,520
first Rover is on the track so let's

412
00:18:57,950 --> 00:17:22,020
take a look at what they're doing today

413
00:18:57,960 --> 00:20:02,390

oh wow

414

00:20:07,190 --> 00:20:04,549

all right it looks like this uh first

415

00:20:08,930 --> 00:20:07,200

Rover is on the course just from finder

416

00:20:10,970 --> 00:20:08,940

we are at the U.S

417

00:20:12,890 --> 00:20:10,980

sphincter and Huntsville

418

00:20:14,450 --> 00:20:12,900

we're very close to NASA's Marshall

419

00:20:17,630 --> 00:20:14,460

space flight center which is where we

420

00:20:19,730 --> 00:20:17,640

are from NASA Marshall it works on a ton

421

00:20:21,830 --> 00:20:19,740

of programs in this Artemis uh

422

00:20:25,250 --> 00:20:21,840

generation we work on the space launch

423

00:20:27,710 --> 00:20:25,260

system the human Lander system so a lot

424

00:20:29,510 --> 00:20:27,720

to log on at Marshall and Huntsville I

425

00:20:32,330 --> 00:20:29,520

want to remind everybody we have 48

426
00:20:34,610 --> 00:20:32,340
teams competing over 500 students are

427
00:20:37,610 --> 00:20:34,620
competing today you know they have to go

428
00:20:41,150 --> 00:20:37,620
through 10 obstacles 5

429
00:20:42,770 --> 00:20:41,160
not a race they get points as they go

430
00:20:45,350 --> 00:20:42,780
through these obstacles and complete

431
00:20:46,909 --> 00:20:45,360
these tasks and they can bypass those so

432
00:20:48,650 --> 00:20:46,919
if they choose to bypass them they would

433
00:20:50,570 --> 00:20:48,660
get no points whereas if they attempt

434
00:20:52,789 --> 00:20:50,580
them they could get a range of points

435
00:20:54,470 --> 00:20:52,799
throughout so when you see these

436
00:20:56,450 --> 00:20:54,480
leaderboards just keep in mind that it's

437
00:20:57,590 --> 00:20:56,460
not completely about the time that they

438
00:21:01,070 --> 00:20:57,600

have can you tell us a little bit more

439

00:21:05,450 --> 00:21:03,350

oh yes it's about eight minutes I

440

00:21:07,330 --> 00:21:05,460

believe that they have to complete that

441

00:21:09,830 --> 00:21:07,340

course

442

00:21:11,270 --> 00:21:09,840

and it looks like we actually do have a

443

00:21:12,710 --> 00:21:11,280

team ready at the start line so we're

444

00:21:16,010 --> 00:21:12,720

gonna send it to our colleague Beth to

445

00:21:20,810 --> 00:21:18,710

hey there I just wanted to let you guys

446

00:21:22,789 --> 00:21:20,820

know we are here with Blue Ridge High

447

00:21:24,169 --> 00:21:22,799

School I am very excited to be here with

448

00:21:27,650 --> 00:21:24,179

my friends can you say your name I'm

449

00:21:29,270 --> 00:21:27,660

Jack I'm Annelise Jack and Annelise no

450

00:21:30,890 --> 00:21:29,280

yesterday was a baseline for the course

451
00:21:33,409 --> 00:21:30,900
we learned a few lessons what have you

452
00:21:35,630 --> 00:21:33,419
guys put into place overnight

453
00:21:38,690 --> 00:21:35,640
um so what we did is we adjust the bands

454
00:21:39,890 --> 00:21:38,700
because our uh pedals kept slipping

455
00:21:44,870 --> 00:21:39,900
because there's still time to try to

456
00:21:50,450 --> 00:21:47,390
and I love this paint job here I see a

457
00:21:52,850 --> 00:21:50,460
big r is there a reason for that

458
00:21:52,860 --> 00:21:56,230
this is

459
00:21:59,810 --> 00:21:58,490
I love it you guys are going to show out

460
00:22:00,770 --> 00:21:59,820
for Blue Ridge today and is there

461
00:22:02,390 --> 00:22:00,780
anything that you'd like to talk about

462
00:22:05,149 --> 00:22:02,400
your wheels

463
00:22:07,850 --> 00:22:05,159

uh yeah so our wheels are actually built

464

00:22:10,010 --> 00:22:07,860

out of the plastic is your culvert pipe

465

00:22:12,470 --> 00:22:10,020

and then in the center we actually cut a

466

00:22:14,270 --> 00:22:12,480

fire extinguisher and that's

467

00:22:15,649 --> 00:22:14,280

it oh that's fantastic well I wish you

468

00:22:17,149 --> 00:22:15,659

guys the best of luck it's going to be a

469

00:22:21,529 --> 00:22:17,159

good day and we'll go back to the tent

470

00:22:24,770 --> 00:22:23,390

all right we have a student from Blue

471

00:22:26,810 --> 00:22:24,780

Ridge High School here with us can you

472

00:22:28,970 --> 00:22:26,820

tell us your name my name is Nolan

473

00:22:30,890 --> 00:22:28,980

Gibson great what's your role on the

474

00:22:34,130 --> 00:22:30,900

team Nolan uh my role is really

475

00:22:34,140 --> 00:22:37,850

job we just all kind of work together

476
00:22:41,649 --> 00:22:39,529
work really well in the communication of

477
00:22:44,090 --> 00:22:41,659
your team everybody

478
00:22:46,250 --> 00:22:44,100
so we all just kind of communicate and

479
00:22:47,930 --> 00:22:46,260
make sure the work gets done

480
00:22:50,090 --> 00:22:47,940
and how are you feeling today are you

481
00:22:51,950 --> 00:22:50,100
excited oh yeah there's definitely a lot

482
00:22:53,570 --> 00:22:51,960
of nerves but we're very excited to see

483
00:22:55,549 --> 00:22:53,580
how our Rover performs

484
00:22:57,409 --> 00:22:55,559
perfect can you tell us a little bit

485
00:22:59,870 --> 00:22:57,419
more about the design of your Rover can

486
00:23:01,669 --> 00:22:59,880
you talk through that well our Rover we

487
00:23:08,390 --> 00:23:01,679
went for a little bit of a heavier frame

488
00:23:10,549 --> 00:23:09,950

first

489

00:23:19,909 --> 00:23:10,559

um

490

00:23:24,289 --> 00:23:22,310

you know we see a lot of very difficult

491

00:23:26,090 --> 00:23:24,299

obstacles on this course including a

492

00:23:30,230 --> 00:23:26,100

steep incline does your team go over

493

00:23:33,590 --> 00:23:31,970

speed as we can to try and get over it

494

00:23:36,649 --> 00:23:33,600

and if we can't we might get out of push

495

00:23:39,049 --> 00:23:36,659

I love that and you competed yesterday

496

00:23:40,490 --> 00:23:39,059

correct yeah okay talk to us a little

497

00:23:41,990 --> 00:23:40,500

bit about what you learned from

498

00:23:44,690 --> 00:23:42,000

yesterday and what you hope to

499

00:23:47,090 --> 00:23:44,700

accomplish today well yesterday we

500

00:23:49,850 --> 00:23:47,100

learned that our Rover can definitely

501
00:23:50,870 --> 00:23:49,860
handle the terrain and everything

502
00:23:53,690 --> 00:23:50,880
um

503
00:23:55,130 --> 00:23:53,700
we're hoping to attempt some more of the

504
00:23:58,370 --> 00:23:55,140
obstacles because yesterday we really

505
00:24:00,110 --> 00:23:58,380
just went for time but um

506
00:24:02,390 --> 00:24:00,120
I think we learned a couple of things

507
00:24:04,850 --> 00:24:02,400
about what our team

508
00:24:06,409 --> 00:24:04,860
I mean our our driver yesterday he was

509
00:24:08,690 --> 00:24:06,419
able to push the Rover for about the

510
00:24:11,270 --> 00:24:08,700
last half and made it to

511
00:24:13,909 --> 00:24:11,280
15 seconds over I believe it was

512
00:24:17,270 --> 00:24:13,919
cool what's your strategy going

513
00:24:19,610 --> 00:24:17,280

uh compared to day one uh day one it was

514

00:24:21,350 --> 00:24:19,620

really just a time thing we were going

515

00:24:25,909 --> 00:24:21,360

to try and take all the bypasses we were

516

00:24:31,010 --> 00:24:28,669

to try and get a better time

517

00:24:33,230 --> 00:24:31,020

I love that and as your team is going

518

00:24:34,370 --> 00:24:33,240

down the course is there anyone that you

519

00:24:35,870 --> 00:24:34,380

want to think

520

00:24:38,149 --> 00:24:35,880

oh well I definitely want to thank our

521

00:24:42,649 --> 00:24:38,159

instructor Mr Woolridge

522

00:24:46,730 --> 00:24:45,230

I want to thank my

523

00:24:50,270 --> 00:24:46,740

kind of helped me through all this and

524

00:24:51,950 --> 00:24:50,280

get me here to talk to you guys today

525

00:24:54,169 --> 00:24:51,960

great can

526
00:24:56,210 --> 00:24:54,179
be more about

527
00:24:57,470 --> 00:24:56,220
gopher what what behind maybe your

528
00:25:01,250 --> 00:24:57,480
wheeled sign can you talk through that

529
00:25:04,190 --> 00:25:01,260
oh so our wheel design it's a 24 inch

530
00:25:06,830 --> 00:25:04,200
culvert pipe that we cut into

531
00:25:08,210 --> 00:25:06,840
three sections wide and then the wheel

532
00:25:10,190 --> 00:25:08,220
hub is

533
00:25:13,669 --> 00:25:10,200
cut in

534
00:25:16,730 --> 00:25:13,679
kosher and surrounded by that it's six

535
00:25:18,409 --> 00:25:16,740
inch Culvert that we bolted from the

536
00:25:20,990 --> 00:25:18,419
fire extinguisher out

537
00:25:24,110 --> 00:25:21,000
and then we filled it with with rigid

538
00:25:25,610 --> 00:25:24,120

expanding so it's really good structure

539

00:25:27,169 --> 00:25:25,620

that's a very unique design how did you

540

00:25:29,570 --> 00:25:27,179

guys come up with like cutting open a

541

00:25:35,330 --> 00:25:29,580

fire extinguisher well we

542

00:25:39,049 --> 00:25:37,070

a lot of our Rovers

543

00:25:40,730 --> 00:25:39,059

based on what we could find around the

544

00:25:42,890 --> 00:25:40,740

shop

545

00:25:44,810 --> 00:25:42,900

very cool can you tell us a little bit

546

00:25:47,330 --> 00:25:44,820

more about maybe the steering on your

547

00:25:49,730 --> 00:25:47,340

Rover so our steering has a very unique

548

00:25:51,250 --> 00:25:49,740

design it has a sidebar that we turned

549

00:25:54,409 --> 00:25:51,260

to steer

550

00:25:56,450 --> 00:25:54,419

it was a very last minute change we were

551
00:25:58,370 --> 00:25:56,460
originally planning on a wheel but with

552
00:25:59,930 --> 00:25:58,380
the design of our

553
00:26:01,909 --> 00:25:59,940
work better

554
00:26:04,549 --> 00:26:01,919
it runs into a rod with a slight turn

555
00:26:06,890 --> 00:26:04,559
and it goes directly into our axle and

556
00:26:08,390 --> 00:26:06,900
some steering knuckles

557
00:26:09,890 --> 00:26:08,400
um and just a reminder again there are

558
00:26:11,510 --> 00:26:09,900
some stimming

559
00:26:13,070 --> 00:26:11,520
for the teams as well can you talk a

560
00:26:16,310 --> 00:26:13,080
little bit about your sim engagement

561
00:26:17,990 --> 00:26:16,320
that your team has done so we have a

562
00:26:20,750 --> 00:26:18,000
middle school attached to our high

563
00:26:22,789 --> 00:26:20,760

school and we went in there and we

564

00:26:26,750 --> 00:26:22,799

a lot of the high school students to

565

00:26:28,310 --> 00:26:26,760

come up with ideas for our task tool and

566

00:26:31,010 --> 00:26:28,320

we got a lot of good ideas and we

567

00:26:34,010 --> 00:26:31,020

ultimately came out with a um

568

00:26:35,570 --> 00:26:34,020

it's kind of like a little box that we

569

00:26:37,789 --> 00:26:35,580

drop in the water and it has a gasket

570

00:26:39,289 --> 00:26:37,799

that sucks up all the water and it was a

571

00:26:41,570 --> 00:26:39,299

really good idea and we were excited to

572

00:26:43,130 --> 00:26:41,580

use it but

573

00:26:46,310 --> 00:26:43,140

so we won't be

574

00:26:48,169 --> 00:26:46,320

great and uh can you tell me about about

575

00:26:49,250 --> 00:26:48,179

how you're feeling are you nervous I

576
00:26:50,330 --> 00:26:49,260
know you said you're excited but are

577
00:26:52,850 --> 00:26:50,340
there any nerves involved today

578
00:26:55,970 --> 00:26:53,830
after yesterday

579
00:27:00,470 --> 00:26:55,980
[Music]

580
00:27:01,909 --> 00:27:00,480
reform in the final run and we're our

581
00:27:03,590 --> 00:27:01,919
entire team I don't want to speak for

582
00:27:12,409 --> 00:27:03,600
them but I think we're all

583
00:27:16,070 --> 00:27:14,690
was there anything that any obstacle

584
00:27:17,450 --> 00:27:16,080
that got in the way prior to even

585
00:27:18,769 --> 00:27:17,460
yesterday

586
00:27:20,930 --> 00:27:18,779
oh yeah

587
00:27:22,789 --> 00:27:20,940
um snow days we have a lot of snow where

588
00:27:24,590 --> 00:27:22,799

we're from I think we probably got about

589

00:27:28,010 --> 00:27:24,600

five feet this year and we missed eight

590

00:27:28,909 --> 00:27:28,020

days of school and because our

591

00:27:31,310 --> 00:27:28,919

um

592

00:27:33,230 --> 00:27:31,320

our build was based off of a club it

593

00:27:34,850 --> 00:27:33,240

wasn't a class or anything

594

00:27:36,110 --> 00:27:34,860

um it was really hard to get there

595

00:27:38,450 --> 00:27:36,120

because

596

00:27:41,029 --> 00:27:38,460

I mean having to drive in after school

597

00:27:42,529 --> 00:27:41,039

wasn't really an option on snow days

598

00:27:43,850 --> 00:27:42,539

that must have been very

599

00:27:46,190 --> 00:27:43,860

like we do have another team ready thank

600

00:27:48,190 --> 00:27:46,200

you Nolan for joining us uh go join your

601
00:27:50,330 --> 00:27:48,200
team go cheer them on thank you

602
00:27:51,590 --> 00:27:50,340
all right so we've got another team

603
00:27:54,230 --> 00:27:51,600
waiting at the start line so we're gonna

604
00:27:56,870 --> 00:27:54,240
pass to our colleague Beth now

605
00:27:58,970 --> 00:27:56,880
thanks Alyssa so much we are here with

606
00:28:00,950 --> 00:27:58,980
UAH our local team right here in

607
00:28:03,049 --> 00:28:00,960
Huntsville Alabama and what is her name

608
00:28:05,570 --> 00:28:03,059
Annika Nemo and what is your major

609
00:28:08,330 --> 00:28:05,580
aerospace engineering of course it is

610
00:28:10,070 --> 00:28:08,340
you guys did a fabulous job yesterday

611
00:28:12,169 --> 00:28:10,080
you're on the leaderboard you're here

612
00:28:13,610 --> 00:28:12,179
the articulated movement on your Rover

613
00:28:15,350 --> 00:28:13,620

it really seemed to pay off yesterday

614

00:28:16,669 --> 00:28:15,360

anything that you guys might have

615

00:28:19,730 --> 00:28:16,679

changed or looking forward to do

616

00:28:22,190 --> 00:28:19,740

different so we're looking to do most of

617

00:28:23,930 --> 00:28:22,200

the tasks today and most of the

618

00:28:26,090 --> 00:28:23,940

obstacles so we know what to expect and

619

00:28:27,169 --> 00:28:26,100

we're ready for it fantastic and they

620

00:28:29,029 --> 00:28:27,179

were telling me that you did some

621

00:28:32,390 --> 00:28:29,039

mountain bike riding to get ready for

622

00:28:34,730 --> 00:28:32,400

the the course today how did that go did

623

00:28:37,669 --> 00:28:34,740

it seem to pay off for you yeah I'm

624

00:28:40,130 --> 00:28:37,679

ready to Pedal as hard as I can and

625

00:28:41,330 --> 00:28:40,140

we're gonna bring it home all right four

626
00:28:43,850 --> 00:28:41,340
tasks that you're tackling today

627
00:28:46,070 --> 00:28:43,860
anything else that you guys are looking

628
00:28:46,970 --> 00:28:46,080
to do

629
00:28:50,269 --> 00:28:46,980
um

630
00:28:51,110 --> 00:28:50,279
just do all the obstacles as fast as we

631
00:28:52,610 --> 00:28:51,120
can

632
00:28:54,110 --> 00:28:52,620
there's a couple of tricky ones that

633
00:28:54,950 --> 00:28:54,120
we're gonna skip but other than that I

634
00:28:56,930 --> 00:28:54,960
think

635
00:28:58,730 --> 00:28:56,940
we're ready to go all right and we're

636
00:29:00,649 --> 00:28:58,740
ready to see you go I'm wishing you guys

637
00:29:02,810 --> 00:29:00,659
the best of luck thanks so much go

638
00:29:07,430 --> 00:29:02,820

Chargers and you guys I'm gonna throw it

639

00:29:11,690 --> 00:29:09,590

all right it looks like we have several

640

00:29:13,490 --> 00:29:11,700

teams on the course right now

641

00:29:17,990 --> 00:29:13,500

um their teams are cheering them on and

642

00:29:21,169 --> 00:29:19,310

they made it through

643

00:29:23,510 --> 00:29:21,179

it through that pretty well

644

00:29:25,549 --> 00:29:23,520

um oh looks like they're actually out of

645

00:29:27,830 --> 00:29:25,559

the Rover pushing it so they might be

646

00:29:29,450 --> 00:29:27,840

having some difficulties but we have the

647

00:29:30,769 --> 00:29:29,460

University of Alabama and Huntsville is

648

00:29:33,289 --> 00:29:30,779

getting ready to go that's the local

649

00:29:34,730 --> 00:29:33,299

team here so it'll be exciting to see

650

00:29:37,010 --> 00:29:34,740

how many people are cheering for them

651
00:29:38,389 --> 00:29:37,020
today Lance do you have anything you

652
00:29:40,610 --> 00:29:38,399
want to say about looks like Blue Ridge

653
00:29:43,430 --> 00:29:40,620
School District of going right now well

654
00:29:45,889 --> 00:29:43,440
we just talked with uh Nolan and we

655
00:29:49,370 --> 00:29:45,899
heard all about the challenges uh that

656
00:29:50,870 --> 00:29:49,380
they overcame to get this going so looks

657
00:29:53,269 --> 00:29:50,880
like they're pushing their way through

658
00:29:54,649 --> 00:29:53,279
and we're excited for them and all of

659
00:30:02,630 --> 00:29:54,659
our teams

660
00:30:06,409 --> 00:30:04,669
we even have some singing going on here

661
00:30:08,570 --> 00:30:06,419
for teens getting super excited before

662
00:30:11,630 --> 00:30:08,580
they go into the course

663
00:30:13,549 --> 00:30:11,640

so the the excitement is very

664

00:30:17,930 --> 00:30:13,559

vibrant today

665

00:30:22,970 --> 00:30:20,269

that so they're excited to be here

666

00:30:27,409 --> 00:30:24,350

looks like Blue Ridge school district

667

00:30:29,210 --> 00:30:27,419

has made it to that finish

668

00:30:36,950 --> 00:30:29,220

University of Alabama and Huntsville is

669

00:30:41,210 --> 00:30:39,350

uh just a reminder that we are going to

670

00:30:42,470 --> 00:30:41,220

be on social media all day today giving

671

00:30:44,690 --> 00:30:42,480

live updates

672

00:30:46,549 --> 00:30:44,700

uh NASA social media platforms are a

673

00:30:48,289 --> 00:30:46,559

great place to not only learn more but

674

00:30:51,289 --> 00:30:48,299

to engage with others around the world

675

00:30:54,049 --> 00:30:51,299

we are on Twitter and Facebook streaming

676
00:30:56,210 --> 00:30:54,059
on YouTube and Facebook as well if you

677
00:30:57,950 --> 00:30:56,220
have any questions you can drop those

678
00:31:00,350 --> 00:30:57,960
and we'll be sure to answer those

679
00:31:02,810 --> 00:31:00,360
best we can online and on the broadcast

680
00:31:04,789 --> 00:31:02,820
as we are able you can also use that

681
00:31:08,990 --> 00:31:04,799
hashtag Nash

682
00:31:10,909 --> 00:31:09,000
to ask us questions as well

683
00:31:12,350 --> 00:31:10,919
we also you know I want to give a big

684
00:31:13,730 --> 00:31:12,360
shout out while we're waiting on some

685
00:31:15,710 --> 00:31:13,740
teams to start I want to give a big

686
00:31:17,870 --> 00:31:15,720
shout out to our sponsors you know their

687
00:31:19,669 --> 00:31:17,880
their support is not only monetary but

688
00:31:21,590 --> 00:31:19,679

it's just about the advice that they

689

00:31:23,389 --> 00:31:21,600

give and the help that they have we have

690

00:31:24,830 --> 00:31:23,399

so many volunteers today that are that

691

00:31:28,430 --> 00:31:24,840

are helping us and it wouldn't be

692

00:31:32,690 --> 00:31:31,010

we cannot thank them enough

693

00:31:34,130 --> 00:31:32,700

and I and let's talk about the

694

00:31:36,470 --> 00:31:34,140

challenges

695

00:31:39,529 --> 00:31:36,480

there are 10 obstacles I mean anything

696

00:31:41,570 --> 00:31:39,539

from an incline to a big Ravine that

697

00:31:43,370 --> 00:31:41,580

these students have to go through we saw

698

00:31:45,409 --> 00:31:43,380

some difficulties yesterday with that

699

00:31:48,289 --> 00:31:45,419

hopefully we won't see any difficulties

700

00:31:53,029 --> 00:31:50,330

they have five tasks they have to

701
00:31:55,310 --> 00:31:53,039
complete and it's that liquid sample

702
00:31:56,810 --> 00:31:55,320
retrieval so they have to be able to

703
00:31:59,330 --> 00:31:56,820
collect that liquid sample without

704
00:32:01,370 --> 00:31:59,340
getting off the Rover and they cannot

705
00:32:03,529 --> 00:32:01,380
cross-contaminate so they've got to

706
00:32:05,690 --> 00:32:03,539
build a whole tool for this and you know

707
00:32:07,549 --> 00:32:05,700
it's a lot of it's a lot of work for

708
00:32:09,529 --> 00:32:07,559
these students you know they go to

709
00:32:11,330 --> 00:32:09,539
classes they have homework when they get

710
00:32:13,430 --> 00:32:11,340
home and then they're also building a

711
00:32:15,110 --> 00:32:13,440
Rover it's a lot of work Lance can you

712
00:32:17,570 --> 00:32:15,120
tell us more about you know what these

713
00:32:19,490 --> 00:32:17,580

students mindsets might be today oh I

714

00:32:23,269 --> 00:32:19,500

think they're very excited as you can

715

00:32:25,370 --> 00:32:23,279

hear the background a lot of morale here

716

00:32:28,549 --> 00:32:25,380

come from near and many have come from

717

00:32:31,010 --> 00:32:28,559

far and uh just just looking around it's

718

00:32:33,169 --> 00:32:31,020

just a lot of enthusiasm and passion

719

00:32:34,970 --> 00:32:33,179

goal I would say absolutely passion for

720

00:32:36,769 --> 00:32:34,980

the students passion from our volunteers

721

00:32:37,850 --> 00:32:36,779

once again thank you so much to the

722

00:32:39,230 --> 00:32:37,860

volunteers you'll see them kind of

723

00:32:40,549 --> 00:32:39,240

around the course today as you're

724

00:32:43,250 --> 00:32:40,559

watching

725

00:32:44,870 --> 00:32:43,260

um they're helping set up reset up these

726

00:32:47,330 --> 00:32:44,880

um obstacles as rovers are going through

727

00:32:50,210 --> 00:32:47,340

them and helping us you know from food

728

00:32:51,590 --> 00:32:50,220

to to just helping out with anything

729

00:32:54,470 --> 00:32:51,600

that we may need here in the broadcast

730

00:32:58,070 --> 00:32:54,480

Booth so huge thank you to this excited

731

00:33:00,010 --> 00:32:58,080

for the students excited for us uh 29th

732

00:33:02,389 --> 00:33:00,020

year yeah

733

00:33:05,269 --> 00:33:02,399

and the weather is holding up pretty

734

00:33:06,710 --> 00:33:05,279

good we were so sure how that would pan

735

00:33:07,789 --> 00:33:06,720

out but it looks like it's going to be a

736

00:33:09,350 --> 00:33:07,799

beautiful day

737

00:33:11,330 --> 00:33:09,360

all right it looks like we are about to

738

00:33:35,400 --> 00:33:11,340

have another team go today so we'll be

739

00:33:35,410 --> 00:34:39,230

[Applause]

740

00:34:42,889 --> 00:34:41,089

all right we are joined by

741

00:34:44,750 --> 00:34:42,899

representatives from the University of

742

00:34:46,669 --> 00:34:44,760

Alabama and Huntsville their team the

743

00:34:47,990 --> 00:34:46,679

Rover just hit the course you are the

744

00:34:50,510 --> 00:34:48,000

local team I think you guys have the

745

00:34:55,909 --> 00:34:50,520

shortest drive probably can tell me your

746

00:35:00,170 --> 00:34:58,250

and I'm Kristen King I am part of the

747

00:35:04,310 --> 00:35:00,180

suspension and frame team

748

00:35:06,410 --> 00:35:04,320

very cool speaking of same engagement

749

00:35:07,790 --> 00:35:06,420

there's assuming requirement for The

750

00:35:09,170 --> 00:35:07,800

Rovers this year can you tell me a

751
00:35:10,430 --> 00:35:09,180
little bit more about what your team has

752
00:35:11,690 --> 00:35:10,440
done

753
00:35:13,849 --> 00:35:11,700
different School

754
00:35:15,710 --> 00:35:13,859
to Legacy Elementary here in Huntsville

755
00:35:28,430 --> 00:35:15,720
and

756
00:35:30,829 --> 00:35:28,440
then we also did a lot of freshmen

757
00:35:33,349 --> 00:35:30,839
people high school or seniors did a lot

758
00:35:35,329 --> 00:35:33,359
of work with them oh that's so nice

759
00:35:37,609 --> 00:35:35,339
and you all are local right here in the

760
00:35:40,130 --> 00:35:37,619
Rocket City what does that mean to you

761
00:35:42,829 --> 00:35:40,140
to participate in this NASA challenge

762
00:35:44,450 --> 00:35:42,839
it it's a great thing because we're

763
00:35:48,050 --> 00:35:44,460

right here we can be able to help other

764

00:35:50,210 --> 00:35:48,060

teams me and another piece another team

765

00:35:52,730 --> 00:35:50,220

out of mine stayed yesterday to about

766

00:35:54,790 --> 00:35:52,740

seven o'clock and helped more than I

767

00:35:57,170 --> 00:35:54,800

would say four or five teams with

768

00:35:58,010 --> 00:35:57,180

finding pieces from our shop locally

769

00:35:59,870 --> 00:35:58,020

here

770

00:36:02,930 --> 00:35:59,880

our campus just across the interstate

771

00:36:05,329 --> 00:36:02,940

and so we helped more than I would say

772

00:36:06,710 --> 00:36:05,339

about five or six teams and it was just

773

00:36:08,510 --> 00:36:06,720

great to

774

00:36:11,089 --> 00:36:08,520

to be able to help

775

00:36:13,310 --> 00:36:11,099

definitely definitely and is there any

776

00:36:14,930 --> 00:36:13,320

one uh or any group of people that you

777

00:36:16,910 --> 00:36:14,940

want to recognize or acknowledge because

778

00:36:19,370 --> 00:36:16,920

I know a lot of work goes into preparing

779

00:36:20,270 --> 00:36:19,380

for this competition so talk to us about

780

00:36:23,030 --> 00:36:20,280

that

781

00:36:25,550 --> 00:36:23,040

I would just say um our advisor uh Mr

782

00:36:28,190 --> 00:36:25,560

David fights he's been the person

783

00:36:30,530 --> 00:36:28,200

keeping 32 people in line

784

00:36:32,569 --> 00:36:30,540

um getting our Rover ready and also our

785

00:36:35,329 --> 00:36:32,579

machine shop

786

00:36:38,349 --> 00:36:35,339

Mr John Buckley he's helped us

787

00:36:42,230 --> 00:36:38,359

tremendously on all aspects of the frame

788

00:36:45,530 --> 00:36:42,240

the welding piece he taught us basically

789

00:36:47,450 --> 00:36:45,540

how to weld the tig the Mig all the

790

00:36:49,370 --> 00:36:47,460

stuff that goes into the

791

00:36:51,710 --> 00:36:49,380

putting aluminum together

792

00:36:58,130 --> 00:36:51,720

well thank you thank you I think we do

793

00:37:04,430 --> 00:37:00,950

thanks Alyssa and Lance I am here with

794

00:37:07,069 --> 00:37:04,440

Southern Illinois University uh what is

795

00:37:09,530 --> 00:37:07,079

your name Grace Miller Grace and what is

796

00:37:11,450 --> 00:37:09,540

your major in college civil engineering

797

00:37:13,250 --> 00:37:11,460

civil engineering we're going to be nice

798

00:37:14,930 --> 00:37:13,260

about it all right

799

00:37:16,609 --> 00:37:14,940

I want to tell you something yesterday

800

00:37:18,290 --> 00:37:16,619

you guys impressed me so much on the

801
00:37:20,390 --> 00:37:18,300
course you had the best attitude

802
00:37:24,230 --> 00:37:20,400
high-fiving a million people as you were

803
00:37:26,810 --> 00:37:24,240
going any Lessons Learned uh yeah pick

804
00:37:28,550 --> 00:37:26,820
any win you can get yeah yeah celebrate

805
00:37:30,109 --> 00:37:28,560
all the moments especially when you fail

806
00:37:32,050 --> 00:37:30,119
that's what you learn from and have a

807
00:37:35,270 --> 00:37:32,060
great attitude

808
00:37:38,210 --> 00:37:35,280
fantastic and back here my my co-pilot

809
00:37:40,190 --> 00:37:38,220
what is your name Alex humanik all right

810
00:37:41,930 --> 00:37:40,200
Alex what is your major I'm mechanical

811
00:37:45,050 --> 00:37:41,940
engineering all right and you're kind of

812
00:37:47,810 --> 00:37:45,060
back here prop back Howard yeah I'm a

813
00:37:49,790 --> 00:37:47,820

Powerhouse back here fantastic I live in

814

00:37:51,950 --> 00:37:49,800

uh yesterday how did your wheels do on

815

00:37:53,270 --> 00:37:51,960

the court uh Wheels went pretty solid

816

00:37:54,950 --> 00:37:53,280

we've had a tiny problem with our

817

00:37:56,870 --> 00:37:54,960

steering but uh we're hoping the wheels

818

00:37:59,150 --> 00:37:56,880

hold up good again today all right we'll

819

00:38:01,609 --> 00:37:59,160

be sure you're wishing you guys the best

820

00:38:04,190 --> 00:38:01,619

of luck thank you so much and I keep

821

00:38:09,829 --> 00:38:04,200

those attitude shining so much bye all

822

00:38:14,750 --> 00:38:13,190

hello and we have a

823

00:38:17,390 --> 00:38:14,760

uh of Alabama Huntsville right now doing

824

00:38:20,930 --> 00:38:19,250

stand so that's super exciting to see um

825

00:38:23,990 --> 00:38:20,940

like I mentioned this is one of the five

826

00:38:26,329 --> 00:38:24,000

tasks they have to complete uh they have

827

00:38:30,170 --> 00:38:26,339

to get these liquid samples without

828

00:38:35,089 --> 00:38:32,150

so this is an interesting tool that the

829

00:38:36,890 --> 00:38:35,099

students have created to be able to grab

830

00:38:47,270 --> 00:38:36,900

that liquid sample

831

00:38:52,720 --> 00:38:49,490

I just want to mention that hurt did

832

00:38:54,530 --> 00:38:52,730

begin in 1994 this is the 20

833

00:38:59,150 --> 00:38:54,540

[Applause]

834

00:39:03,290 --> 00:39:00,950

we do have multiple Rovers that go on

835

00:39:04,730 --> 00:39:03,300

the course at the same time

836

00:39:07,310 --> 00:39:04,740

to be able to get through all of them

837

00:39:10,250 --> 00:39:07,320

today we have 48 teams so you'll see

838

00:39:12,770 --> 00:39:10,260

multiple Rovers on the course today and

839

00:39:14,630 --> 00:39:12,780

the time is eight minutes isn't it

840

00:39:17,150 --> 00:39:14,640

yes they must complete the course with

841

00:39:17,160 --> 00:39:20,450

eight so we're gonna

842

00:39:20,460 --> 00:39:46,609

go through these obstacles

843

00:39:49,670 --> 00:39:48,290

all right we have another team with us

844

00:39:51,470 --> 00:39:49,680

here in the broadcast Booth can you tell

845

00:39:53,030 --> 00:39:51,480

me your name and your school yep uh my

846

00:39:55,370 --> 00:39:53,040

name is Ian Smith and I'm from Southern

847

00:39:58,370 --> 00:39:56,810

looks like your team is on the course

848

00:40:00,410 --> 00:39:58,380

right now can you tell us a little bit

849

00:40:01,730 --> 00:40:00,420

about how you're feeling today oh we're

850

00:40:04,250 --> 00:40:01,740

feeling great we've made a lot of our

851
00:40:05,810 --> 00:40:04,260
adjustments yesterday if we needed to we

852
00:40:19,310 --> 00:40:05,820
ended up having to push the buggy

853
00:40:19,320 --> 00:40:24,650
[Music]

854
00:40:29,510 --> 00:40:26,630
my front spindles because those were

855
00:40:30,530 --> 00:40:29,520
they're wobbling quite a bit

856
00:40:37,550 --> 00:40:30,540
and of course

857
00:40:41,630 --> 00:40:39,230
are all right is there anything that you

858
00:40:43,970 --> 00:40:41,640
want to say to your teammates or your

859
00:40:46,130 --> 00:40:43,980
supporters I know a lot has

860
00:40:48,290 --> 00:40:46,140
putting all this together yeah I mean I

861
00:40:49,750 --> 00:40:48,300
would just really like the bank all the

862
00:40:52,490 --> 00:40:49,760
teams here they've been really helpful

863
00:40:54,470 --> 00:40:52,500

the culture the atmosphere here has been

864

00:40:59,150 --> 00:40:54,480

great I would also like to thank our

865

00:41:02,450 --> 00:41:00,829

amazing though it looks like we do have

866

00:41:04,910 --> 00:41:02,460

another team down at the start line

867

00:41:10,849 --> 00:41:04,920

getting ready to go so let's pass it to

868

00:41:15,829 --> 00:41:14,150

guys I am here with the team from Mexico

869

00:41:19,250 --> 00:41:15,839

they are bringing the party they are

870

00:41:20,690 --> 00:41:19,260

bringing their friends and uh what is

871

00:41:23,089 --> 00:41:20,700

your name and what school are you from

872

00:41:25,790 --> 00:41:23,099

my name is Ian the ring and I am from

873

00:41:30,530 --> 00:41:28,069

fantastic and yesterday unfortunately

874

00:41:32,390 --> 00:41:30,540

you guys lost a wheel on that incline it

875

00:41:34,490 --> 00:41:32,400

was heartbreaking to see online but you

876

00:41:36,829 --> 00:41:34,500

know what I see four wheels here today

877

00:41:38,630 --> 00:41:36,839

and I see some good attitudes what did

878

00:41:41,089 --> 00:41:38,640

you guys have to do to fix that we

879

00:41:43,030 --> 00:41:41,099

brought a Spur wheels from from Mexico

880

00:41:45,470 --> 00:41:43,040

because

881

00:41:46,730 --> 00:41:45,480

so we only reinforced the wheels the

882

00:41:48,170 --> 00:41:46,740

back wheels that were the ones that were

883

00:41:50,930 --> 00:41:48,180

broken and now we're going to bypass

884

00:41:52,670 --> 00:41:50,940

anything no it's not too whiskey I think

885

00:41:54,770 --> 00:41:52,680

that's a great idea you guys are doing

886

00:41:56,750 --> 00:41:54,780

really well and uh what are you doing

887

00:41:58,970 --> 00:41:56,760

with your tool today are you doing are

888

00:42:00,530 --> 00:41:58,980

you going to try some of the tasks yeah

889

00:42:04,010 --> 00:42:00,540

we have a very

890

00:42:06,109 --> 00:42:04,020

um worked tool we are hoping to get all

891

00:42:07,849 --> 00:42:06,119

the points and yeah

892

00:42:11,810 --> 00:42:07,859

all right fantastic do you guys want to

893

00:42:16,670 --> 00:42:11,820

do a cheer for me do we want to

894

00:42:23,630 --> 00:42:16,680

all right here we go one two

895

00:42:23,640 --> 00:42:32,930

today

896

00:42:37,370 --> 00:42:35,329

all right you guys it is a party here

897

00:42:42,710 --> 00:42:37,380

we're ready to get it started to kick it

898

00:42:49,490 --> 00:42:46,430

all right looks like we have Team 103 on

899

00:42:51,589 --> 00:42:49,500

foot right now uh they must be having

900

00:42:52,609 --> 00:42:51,599

some trouble with the Rover oh it looks

901
00:42:54,710 --> 00:42:52,619
like they're going to be trying to get

902
00:42:56,569 --> 00:42:54,720
back on this is a good time to remind

903
00:42:59,270 --> 00:42:56,579
everybody that these student teams

904
00:43:02,329 --> 00:42:59,280
design develop build and test these

905
00:43:04,190 --> 00:43:02,339
power Rovers capable of traversing this

906
00:43:06,290 --> 00:43:04,200
challenging terrain this course is

907
00:43:08,870 --> 00:43:06,300
simulating terrain at the moon the Mars

908
00:43:10,550 --> 00:43:08,880
and other solar bodies too

909
00:43:12,910 --> 00:43:10,560
um you know they also have to complete

910
00:43:16,010 --> 00:43:12,920
the various Mission tasks along the way

911
00:43:18,170 --> 00:43:16,020
so they have created different tools

912
00:43:20,150 --> 00:43:18,180
they've talked about their designs of

913
00:43:22,609 --> 00:43:20,160

their wheels the designs of the steering

914

00:43:24,650 --> 00:43:22,619

all to help get through these obstacle

915

00:43:26,210 --> 00:43:24,660

courses Lance can you tell us a little

916

00:43:27,349 --> 00:43:26,220

bit more about where people can join the

917

00:43:30,710 --> 00:43:27,359

conversation

918

00:43:33,410 --> 00:43:30,720

oh yes uh we encourage everyone to join

919

00:43:36,170 --> 00:43:33,420

us on our social media platforms we're

920

00:43:37,910 --> 00:43:36,180

on Facebook we're on Twitter and we're

921

00:43:40,250 --> 00:43:37,920

on Instagram

922

00:43:42,230 --> 00:43:40,260

yeah and you can use that hashtag NASA

923

00:43:45,650 --> 00:43:42,240

herc to join in on the conversation as

924

00:43:47,930 --> 00:43:45,660

well and it's at Rover challenge for

925

00:43:50,690 --> 00:43:47,940

Twitter and Facebook yes it is

926
00:43:52,849 --> 00:43:50,700
so we've got 48 teams competing

927
00:43:54,349 --> 00:43:52,859
competing eight rookie teams we have 11

928
00:43:56,390 --> 00:43:54,359
high school teams I think that's really

929
00:43:58,309 --> 00:43:56,400
impressive that we have these high

930
00:44:00,050 --> 00:43:58,319
school teams joining us for this

931
00:44:02,270 --> 00:44:00,060
competition community colleges

932
00:44:05,270 --> 00:44:02,280
universities as well

933
00:44:08,030 --> 00:44:05,280
and we also have eight Nations uh

934
00:44:09,410 --> 00:44:08,040
represented from around the world

935
00:44:11,870 --> 00:44:09,420
many International

936
00:44:13,309 --> 00:44:11,880
student here today competing we love

937
00:44:15,410 --> 00:44:13,319
seeing it um

938
00:44:16,849 --> 00:44:15,420

it's so great that this Rover challenges

939

00:44:19,550 --> 00:44:16,859

reach

940

00:44:22,130 --> 00:44:19,560

redrew these students engaged in stem

941

00:44:24,650 --> 00:44:22,140

and engaged in learning more about how

942

00:44:26,390 --> 00:44:24,660

we can advance technology for this

943

00:44:28,730 --> 00:44:26,400

Artemis generation you know this is the

944

00:44:30,770 --> 00:44:28,740

Artemis generation we have here the

945

00:44:32,150 --> 00:44:30,780

artemisions are going to

946

00:44:34,790 --> 00:44:32,160

joins person of color and the first

947

00:44:38,870 --> 00:44:34,800

woman on the moon and we cannot wait to

948

00:44:41,089 --> 00:44:38,880

see we can add such an exciting time for

949

00:44:42,650 --> 00:44:41,099

this generation of it's been

950

00:44:43,849 --> 00:44:42,660

it's been 50 years

951
00:44:46,250 --> 00:44:43,859
60 years

952
00:44:48,109 --> 00:44:46,260
been to the Moon

953
00:44:49,670 --> 00:44:48,119
I believe we do have another team at the

954
00:44:51,470 --> 00:44:49,680
start line so we're going to go ahead

955
00:44:56,150 --> 00:44:51,480
and pass it to our colleague Beth to

956
00:44:59,450 --> 00:44:57,530
oh

957
00:45:02,390 --> 00:44:59,460
never mind I think we actually just have

958
00:45:10,370 --> 00:45:02,400
a team getting ready to go

959
00:45:21,220 --> 00:45:12,069
one

960
00:45:21,230 --> 00:45:53,690
[Music]

961
00:45:58,910 --> 00:45:57,890
all right we have a representative here

962
00:46:00,829 --> 00:45:58,920
can you tell me your name and your

963
00:46:05,089 --> 00:46:00,839

school name too yeah of course my name

964

00:46:07,370 --> 00:46:05,099

is Abraham from Robin from Monterey in

965

00:46:09,650 --> 00:46:07,380

Mexico City come on Mexico

966

00:46:11,510 --> 00:46:09,660

heard your team cheering for you I

967

00:46:12,910 --> 00:46:11,520

believe I heard that's only half years

968

00:46:16,010 --> 00:46:12,920

yeah

969

00:46:17,809 --> 00:46:16,020

small city called cornelaka and we're

970

00:46:20,210 --> 00:46:17,819

Breakside about engineering we love to

971

00:46:22,010 --> 00:46:20,220

do this and we're very happy to be here

972

00:46:24,530 --> 00:46:22,020

yesterday we were a little bit like down

973

00:46:26,510 --> 00:46:24,540

because of an accident on the road one

974

00:46:30,230 --> 00:46:26,520

of our Wheels broke like completely

975

00:46:32,170 --> 00:46:30,240

sorry so it was like a mess but after

976

00:46:34,550 --> 00:46:32,180

checking the rubber we realized that

977

00:46:37,670 --> 00:46:34,560

everything that we have it was like

978

00:46:39,890 --> 00:46:37,680

completely full Integrity it was so well

979

00:46:42,349 --> 00:46:39,900

done we have a philosophy that is a

980

00:46:44,329 --> 00:46:42,359

simple murderer and well done and our

981

00:46:47,150 --> 00:46:44,339

Black Box because at the back of the

982

00:46:49,790 --> 00:46:47,160

Rover I have like small blocks there we

983

00:46:51,770 --> 00:46:49,800

can record everything the speed the

984

00:46:53,750 --> 00:46:51,780

angle the acceleration it's the

985

00:46:55,609 --> 00:46:53,760

Telemetry of our rubber so we know

986

00:46:58,309 --> 00:46:55,619

exactly what happened and how to solve

987

00:47:02,390 --> 00:46:58,319

it so now we're gonna buy as an obstacle

988

00:47:04,790 --> 00:47:02,400

and make our best to to get the best

989

00:47:07,370 --> 00:47:04,800

points in this course we're really happy

990

00:47:10,609 --> 00:47:07,380

we're really excited

991

00:47:13,130 --> 00:47:10,619

um I think our team has worked very hard

992

00:47:15,290 --> 00:47:13,140

a lot of people a lot of students a lot

993

00:47:18,410 --> 00:47:15,300

of teachers and we're gonna put

994

00:47:20,569 --> 00:47:18,420

everything on the on the road today and

995

00:47:22,609 --> 00:47:20,579

I can see it's a little bit of a problem

996

00:47:26,630 --> 00:47:22,619

because of the month right there was a

997

00:47:28,670 --> 00:47:26,640

rain yesterday and Yeah the more it's a

998

00:47:31,309 --> 00:47:28,680

little bit complicated with the wheels

999

00:47:33,890 --> 00:47:31,319

and everything it's

1000

00:47:35,329 --> 00:47:33,900

well it's that's a small problem yeah

1001

00:47:36,530 --> 00:47:35,339

right

1002

00:47:40,430 --> 00:47:36,540

we're having a small problem but I'm

1003

00:47:43,370 --> 00:47:41,690

I'm glad you're happy to be here that's

1004

00:47:45,710 --> 00:47:43,380

so good to hear

1005

00:47:47,390 --> 00:47:45,720

um so tell us a little bit more about

1006

00:47:48,950 --> 00:47:47,400

um kind of what you have is there

1007

00:47:49,670 --> 00:47:48,960

anything you change from day one to day

1008

00:47:54,950 --> 00:47:49,680

two

1009

00:47:57,290 --> 00:47:54,960

ratchet wrote so we were like a

1010

00:47:59,990 --> 00:47:57,300

completely fixing a ratchet in our

1011

00:48:02,210 --> 00:48:00,000

pedals because with that we keep the

1012

00:48:06,109 --> 00:48:02,220

power of our rubber so that we could go

1013

00:48:09,470 --> 00:48:06,119

faster with less power so yeah we also

1014

00:48:11,690 --> 00:48:09,480

changed the rocking wheel and we mixed

1015

00:48:14,510 --> 00:48:11,700

we had some supports to the wheels just

1016

00:48:16,190 --> 00:48:14,520

to make sure everything was fine and

1017

00:48:18,829 --> 00:48:16,200

we're really happy to see that

1018

00:48:21,309 --> 00:48:18,839

everything is it's it's working we made

1019

00:48:24,770 --> 00:48:21,319

some tests yesterday our rubber was

1020

00:48:28,970 --> 00:48:24,780

really really really like good climbing

1021

00:48:32,390 --> 00:48:30,710

it looks like they're doing a liquid

1022

00:48:34,849 --> 00:48:32,400

sample retrieval right now can you tell

1023

00:48:36,730 --> 00:48:34,859

us about that yeah of course with this I

1024

00:48:39,530 --> 00:48:36,740

know or sample like

1025

00:48:42,589 --> 00:48:39,540

all sample retrievals in that case we

1026

00:48:46,130 --> 00:48:42,599

have a long cartoon in that and with

1027

00:48:48,410 --> 00:48:46,140

different tubes and that way we can make

1028

00:48:52,490 --> 00:48:48,420

a lot of things in in different size

1029

00:48:56,089 --> 00:48:54,170

all right it looks like we do have a

1030

00:48:57,589 --> 00:48:56,099

team ready at the start line so we are

1031

00:49:01,309 --> 00:48:57,599

going to pass it to our our colleague

1032

00:49:04,550 --> 00:49:01,319

Beth thank you for joining us thanks

1033

00:49:06,530 --> 00:49:04,560

thanks Alyssa and Lance all right so we

1034

00:49:08,990 --> 00:49:06,540

have Escambia High School here yesterday

1035

00:49:12,170 --> 00:49:09,000

it was dramatic it was we felt all of

1036

00:49:13,670 --> 00:49:12,180

the feelings the one-legged man no one

1037

00:49:15,950 --> 00:49:13,680

pedal broke off at the very beginning

1038

00:49:19,309 --> 00:49:15,960

and people were saying online what a

1039

00:49:20,390 --> 00:49:19,319

legend it is so true so yesterday you

1040

00:49:22,730 --> 00:49:20,400

were all gassed up and you're feeling

1041

00:49:23,809 --> 00:49:22,740

better today oh definitely uh we got

1042

00:49:28,910 --> 00:49:23,819

some locked

1043

00:49:32,930 --> 00:49:31,309

absolutely and you guys even with just

1044

00:49:35,930 --> 00:49:32,940

the Three Lakes you went all the way up

1045

00:49:37,130 --> 00:49:35,940

that Mars Hill and uh I think that was

1046

00:49:40,010 --> 00:49:37,140

just incredible it was one of the first

1047

00:49:41,089 --> 00:49:40,020

teams we saw do that yesterday so uh you

1048

00:49:42,710 --> 00:49:41,099

know what I didn't even ask her name

1049

00:49:44,630 --> 00:49:42,720

what's your name but uh I'm Xavier

1050

00:49:48,849 --> 00:49:44,640

Chardon all right Xavier and what is

1051
00:49:53,630 --> 00:49:51,290
is there anything else you changed about

1052
00:49:56,030 --> 00:49:53,640
the Rover last night

1053
00:49:57,710 --> 00:49:56,040
um no we just made sure pedal was in and

1054
00:50:00,890 --> 00:49:57,720
then we're trying to hit every obstacle

1055
00:50:05,990 --> 00:50:03,950
oh yes oh you know what Comfort is so

1056
00:50:08,150 --> 00:50:06,000
important is you know I've heard that

1057
00:50:10,670 --> 00:50:08,160
it's a little bumpy out there

1058
00:50:12,290 --> 00:50:10,680
sure fantastic well we wish you guys the

1059
00:50:14,569 --> 00:50:12,300
best of luck Escambia High School

1060
00:50:17,390 --> 00:50:14,579
students you want to say uh go what is

1061
00:50:25,069 --> 00:50:17,400
your mascot Gators go Gators go Gators

1062
00:50:29,089 --> 00:50:27,230
well can you tell us your name

1063
00:50:31,250 --> 00:50:29,099

um I'm Ava bagashinski from Escambia

1064

00:50:33,050 --> 00:50:31,260

High School Pensacola Florida and I'm

1065

00:50:35,510 --> 00:50:33,060

Kayla Guilford from Escambia High School

1066

00:50:37,609 --> 00:50:35,520

I am the team lead for our broker team

1067

00:50:39,890 --> 00:50:37,619

and what's your role I'm the safety

1068

00:50:41,630 --> 00:50:39,900

officer and Tool specialist great it

1069

00:50:43,490 --> 00:50:41,640

looks like your team is about to get on

1070

00:50:46,370 --> 00:50:43,500

the course today can you tell me what

1071

00:50:47,450 --> 00:50:46,380

you're feeling I'm excited and nervous

1072

00:50:50,030 --> 00:50:47,460

and

1073

00:50:52,130 --> 00:50:50,040

I'm just I hope I hope that goes well

1074

00:50:54,230 --> 00:50:52,140

there's nothing more you can say I'm

1075

00:50:56,150 --> 00:50:54,240

just feeling extremely pumped up and I

1076
00:50:58,670 --> 00:50:56,160
have so much confidence in our drivers

1077
00:51:00,410 --> 00:50:58,680
they did honestly more than we ever

1078
00:51:01,910 --> 00:51:00,420
could have expected yesterday and I just

1079
00:51:03,770 --> 00:51:01,920
have complete faith

1080
00:51:05,150 --> 00:51:03,780
so I'm really excited for today I feel

1081
00:51:07,370 --> 00:51:05,160
like it's gonna be good

1082
00:51:09,650 --> 00:51:07,380
and I I believe y'all did pretty well

1083
00:51:11,569 --> 00:51:09,660
yesterday so kind of what's the mindset

1084
00:51:15,530 --> 00:51:11,579
today have you changed any strategies or

1085
00:51:17,450 --> 00:51:15,540
going going for it um well yesterday

1086
00:51:19,549 --> 00:51:17,460
um what the pedal broke on the front

1087
00:51:22,190 --> 00:51:19,559
wheel so our front driver was pedaling

1088
00:51:24,049 --> 00:51:22,200

with one leg for the entire time so we

1089

00:51:25,309 --> 00:51:24,059

still made it up the hill so the only

1090

00:51:27,650 --> 00:51:25,319

thing is we're going to try to hit every

1091

00:51:29,329 --> 00:51:27,660

obstacle um we couldn't do two yesterday

1092

00:51:31,549 --> 00:51:29,339

and today we're definitely going to go

1093

00:51:33,589 --> 00:51:31,559

for the tasks it was just it wasn't

1094

00:51:35,329 --> 00:51:33,599

it wasn't yesterday because of that big

1095

00:51:37,609 --> 00:51:35,339

hiccup but today we're definitely going

1096

00:51:39,290 --> 00:51:37,619

to try to go all the way

1097

00:51:41,690 --> 00:51:39,300

I'm sure your driver's leg is uh really

1098

00:51:43,250 --> 00:51:41,700

sore today he actually feels he said he

1099

00:51:44,870 --> 00:51:43,260

feels great and he's ready to go he's

1100

00:51:46,190 --> 00:51:44,880

excited our thing is we're just trying

1101
00:51:47,870 --> 00:51:46,200
to do everything we can for the drivers

1102
00:51:50,690 --> 00:51:47,880
get them Icy Hot do whatever we need

1103
00:51:53,150 --> 00:51:50,700
whatever we can I love to see that

1104
00:51:55,250 --> 00:51:53,160
support and I had a chance to talk with

1105
00:51:57,049 --> 00:51:55,260
you right before this movement and you

1106
00:51:59,450 --> 00:51:57,059
told me that both of your parents are in

1107
00:52:01,730 --> 00:51:59,460
stem Fields talk to us a little bit

1108
00:52:03,710 --> 00:52:01,740
about some of the stem engagement that

1109
00:52:06,950 --> 00:52:03,720
your team has done in your local

1110
00:52:08,750 --> 00:52:06,960
community yeah yeah so not only did we

1111
00:52:10,910 --> 00:52:08,760
um participate in our school's Choice

1112
00:52:12,770 --> 00:52:10,920
night where local middle schools could

1113
00:52:14,809 --> 00:52:12,780

come we showed off the Rover we tried to

1114

00:52:16,250 --> 00:52:14,819

get people excited because previously

1115

00:52:17,630 --> 00:52:16,260

people haven't been excited too much

1116

00:52:18,770 --> 00:52:17,640

about like the Rover project in our

1117

00:52:20,030 --> 00:52:18,780

school and we're really trying to Hype

1118

00:52:22,370 --> 00:52:20,040

it up again because it used to be a big

1119

00:52:24,890 --> 00:52:22,380

deal and um we've been going to

1120

00:52:27,410 --> 00:52:24,900

elementary schools and putting on

1121

00:52:29,329 --> 00:52:27,420

um doing presentations for them and

1122

00:52:30,829 --> 00:52:29,339

doing little projects like um there's a

1123

00:52:33,710 --> 00:52:30,839

spaghetti and Marshmallow Challenge that

1124

00:52:35,210 --> 00:52:33,720

we do and they really enjoy it and um

1125

00:52:38,089 --> 00:52:35,220

we're just really hoping to engage more

1126
00:52:40,250 --> 00:52:38,099
kids in the community awesome stuff now

1127
00:52:42,589 --> 00:52:40,260
is there anyone you want to recognize or

1128
00:52:44,089 --> 00:52:42,599
acknowledge uh

1129
00:52:44,930 --> 00:52:44,099
excitement for today

1130
00:52:47,990 --> 00:52:44,940
for today

1131
00:52:50,150 --> 00:52:48,000
um I really want to thank my mom she had

1132
00:52:52,190 --> 00:52:50,160
a lot of setbacks in her life but she

1133
00:52:53,750 --> 00:52:52,200
really encouraged me to join the stem

1134
00:52:56,089 --> 00:52:53,760
field and she really showed me that I

1135
00:52:58,069 --> 00:52:56,099
could do anything I would also like to

1136
00:53:00,109 --> 00:52:58,079
thank our local sponsors um Brown

1137
00:53:02,030 --> 00:53:00,119
helicopter has been a huge help to us

1138
00:53:03,890 --> 00:53:02,040

they donated a lot

1139

00:53:05,750 --> 00:53:03,900

um then there's covers of Pensacola

1140

00:53:07,970 --> 00:53:05,760

which our safety officer actually works

1141

00:53:10,849 --> 00:53:07,980

at she got a larger nature from them um

1142

00:53:12,170 --> 00:53:10,859

Meineke and then Hoover engineering

1143

00:53:14,210 --> 00:53:12,180

Eva

1144

00:53:16,010 --> 00:53:14,220

um I'd I'd like to thank my parents you

1145

00:53:17,510 --> 00:53:16,020

know they the whole reason we chose this

1146

00:53:18,950 --> 00:53:17,520

high school was for this Rover program

1147

00:53:21,230 --> 00:53:18,960

they kind of pushed me towards

1148

00:53:22,970 --> 00:53:21,240

engineering they've never doubted me for

1149

00:53:25,609 --> 00:53:22,980

one second to always have and I'd also

1150

00:53:27,290 --> 00:53:25,619

like to thank our advisor Mr deloge he

1151
00:53:29,510 --> 00:53:27,300
taught us everything we know he's the

1152
00:53:32,930 --> 00:53:29,520
best teacher I could have ever asked for

1153
00:53:35,450 --> 00:53:32,940
but I'm very thankful for him thank you

1154
00:53:38,210 --> 00:53:35,460
all right and it looks like

1155
00:53:40,370 --> 00:53:38,220
um your team has hit that incline pretty

1156
00:53:43,190 --> 00:53:40,380
hard and they're getting them out of

1157
00:53:44,690 --> 00:53:43,200
that hay right now so we want to thank

1158
00:53:46,549 --> 00:53:44,700
you we want you to go cheer on your team

1159
00:53:48,890 --> 00:53:46,559
go go get them

1160
00:53:52,849 --> 00:53:48,900
the guy get them out of that

1161
00:53:56,690 --> 00:53:54,290
and I just want to remind everybody

1162
00:53:58,970 --> 00:53:56,700
online uh to join our conversation

1163
00:54:01,069 --> 00:53:58,980

online like I've said we have a ton of

1164

00:54:03,049 --> 00:54:01,079

updates going on on our social media

1165

00:54:04,430 --> 00:54:03,059

channels so be sure to check us out

1166

00:54:06,829 --> 00:54:04,440

there in between

1167

00:54:08,870 --> 00:54:06,839

uh these Rovers going on the course and

1168

00:54:11,510 --> 00:54:08,880

now I would like to pass it to our

1169

00:54:14,089 --> 00:54:11,520

colleague Ben

1170

00:54:16,910 --> 00:54:14,099

hey Alyssa and Liz I'm here with a young

1171

00:54:18,049 --> 00:54:16,920

thinker foundation and uh we have our

1172

00:54:19,309 --> 00:54:18,059

two pilots this is the first time

1173

00:54:20,930 --> 00:54:19,319

they're taking the course today right

1174

00:54:23,569 --> 00:54:20,940

yes this is the first time they're

1175

00:54:25,609 --> 00:54:23,579

taking the course and uh what are you

1176
00:54:27,589 --> 00:54:25,619
feeling are you guys excited today yeah

1177
00:54:28,910 --> 00:54:27,599
we're really excited because uh this is

1178
00:54:30,589 --> 00:54:28,920
our first Excursion and yesterday

1179
00:54:32,690 --> 00:54:30,599
everyone

1180
00:54:36,770 --> 00:54:32,700
but today uh the students are really

1181
00:54:38,390 --> 00:54:36,780
excited and uh yeah so uh so how far did

1182
00:54:41,089 --> 00:54:38,400
it how long did it take you to travel

1183
00:54:44,390 --> 00:54:41,099
over here so we are from India and I

1184
00:54:46,910 --> 00:54:44,400
took around 14 hours flight to uh get on

1185
00:54:49,370 --> 00:54:46,920
to this competition and we really had

1186
00:54:51,670 --> 00:54:49,380
struggle getting our over here so we

1187
00:54:53,990 --> 00:54:51,680
actually got this delivered yesterday

1188
00:54:55,730 --> 00:54:54,000

talk about cutting it close but you know

1189

00:54:58,670 --> 00:54:55,740

what you're here you're ready to race

1190

00:55:00,950 --> 00:54:58,680

are you guys ready and excited yeah

1191

00:55:02,990 --> 00:55:00,960

absolutely all right well we wish you

1192

00:55:04,549 --> 00:55:03,000

guys the best of luck go out there and

1193

00:55:12,589 --> 00:55:04,559

Conquer that course and thank you so

1194

00:55:19,970 --> 00:55:16,010

we do have some Rovers on the course

1195

00:55:21,890 --> 00:55:19,980

doing that liquid sample retrieval and

1196

00:55:23,690 --> 00:55:21,900

exciting day so

1197

00:55:26,390 --> 00:55:23,700

we've only been in the competition for

1198

00:55:29,390 --> 00:55:26,400

about an hour now and we've seen so many

1199

00:55:37,849 --> 00:55:29,400

exciting things happening several rovers

1200

00:55:40,010 --> 00:55:39,349

get our live commentary is going to come

1201
00:55:42,950 --> 00:55:40,020
to

1202
00:55:45,049 --> 00:55:42,960
a little halt but we will be back dude

1203
00:55:47,990 --> 00:55:45,059
we will continue to stream at these

1204
00:55:49,670 --> 00:55:48,000
Rovers all day long though so do not go

1205
00:55:51,589 --> 00:55:49,680
anywhere you will be able to see those

1206
00:55:53,750 --> 00:55:51,599
and we'll be back here in the broadcast

1207
00:55:56,329 --> 00:55:53,760
Booth a little later today and remember

1208
00:55:59,089 --> 00:55:56,339
you can join us on social media live

1209
00:56:01,609 --> 00:55:59,099
updates will go be going

1210
00:56:03,589 --> 00:56:01,619
games are on YouTube

1211
00:56:05,450 --> 00:56:03,599
be sure to stay tuned and watch these

1212
00:56:07,130 --> 00:56:05,460
Rovers in action and we'll see you back

1213
00:56:09,049 --> 00:56:07,140

here in the broadcast Booth soon you

1214

00:56:28,870 --> 00:56:09,059

have been watching NASA's human

1215

00:56:28,880 --> 00:56:47,870

get ready

1216

00:56:47,880 --> 00:59:34,580

foreign

1217

01:01:36,410 --> 00:59:34,920

[Music]

1218

01:01:36,420 --> 01:08:58,249

foreign

1219

01:08:58,259 --> 01:09:04,630

all right look at this

1220

01:09:04,640 --> 01:09:17,990

so as long as they stay on it

1221

01:09:23,030 --> 01:09:20,390

hi I'm Anita and I'm a junior at Parish

1222

01:09:25,189 --> 01:09:23,040

uh fantastic Anita so yesterday how did

1223

01:09:26,749 --> 01:09:25,199

the course go for you guys it went very

1224

01:09:28,550 --> 01:09:26,759

well we took a more conservative

1225

01:09:30,650 --> 01:09:28,560

approach so we bypassed certain

1226

01:09:33,110 --> 01:09:30,660

obstacles we our main goal was just to

1227

01:09:34,729 --> 01:09:33,120

get points on the board and say we hope

1228

01:09:36,470 --> 01:09:34,739

to improve upon that and hopefully

1229

01:09:38,150 --> 01:09:36,480

increase our score

1230

01:09:39,470 --> 01:09:38,160

fantastic is there anything that you

1231

01:09:40,789 --> 01:09:39,480

guys may have changed overnight about

1232

01:09:43,849 --> 01:09:40,799

your Rover

1233

01:09:45,169 --> 01:09:43,859

we adjusted some of the tasks because

1234

01:09:46,610 --> 01:09:45,179

that is the main thing that we're going

1235

01:09:48,530 --> 01:09:46,620

to be changing about our race we're

1236

01:09:50,749 --> 01:09:48,540

going to attempt some more tests so we

1237

01:09:52,910 --> 01:09:50,759

refined some of them and that is the

1238

01:09:54,890 --> 01:09:52,920

main change that I could say

1239

01:09:57,530 --> 01:09:54,900

fantastic and what's your name hi I'm

1240

01:09:59,750 --> 01:09:57,540

Christopher I'm a sophomore

1241

01:10:01,669 --> 01:09:59,760

okay Christopher I hear that you are the

1242

01:10:04,430 --> 01:10:01,679

welding guy behind this Rover yeah I

1243

01:10:06,470 --> 01:10:04,440

mean me and a friend uh welded uh quite

1244

01:10:08,930 --> 01:10:06,480

a bit of the frame and uh

1245

01:10:10,910 --> 01:10:08,940

and put it together and tell me about

1246

01:10:11,930 --> 01:10:10,920

these wheels these are very interesting

1247

01:10:14,630 --> 01:10:11,940

to me

1248

01:10:17,810 --> 01:10:14,640

um so they're these outer layers are

1249

01:10:20,870 --> 01:10:17,820

triple corrugated uh cardboard these two

1250

01:10:23,149 --> 01:10:20,880

higher inner layers are plywood and then

1251

01:10:25,310 --> 01:10:23,159

there's cardboard on the outside so the

1252

01:10:27,950 --> 01:10:25,320

plywood gives it its rigidity and its

1253

01:10:33,050 --> 01:10:27,960

main structure and then the plywood is

1254

01:10:35,930 --> 01:10:33,060

there for like more uh more uh loose uh

1255

01:10:38,570 --> 01:10:35,940

surfaces so like gravel and and dirt and

1256

01:10:42,950 --> 01:10:38,580

stuff so it allows us to go over almost

1257

01:10:45,229 --> 01:10:44,450

of what did you guys do to train for

1258

01:10:47,510 --> 01:10:45,239

this

1259

01:10:49,910 --> 01:10:47,520

so we have a couple homemade obstacles

1260

01:10:52,550 --> 01:10:49,920

that we went over just to get a feel of

1261

01:10:54,290 --> 01:10:52,560

how the Rover would operate and aside

1262

01:10:56,630 --> 01:10:54,300

from that just working on communication

1263

01:10:58,990 --> 01:10:56,640

between drivers like I'm practicing our

1264

01:11:01,189 --> 01:10:59,000

safe word and going over core strategy

1265

01:11:02,930 --> 01:11:01,199

can you tell me what your safe word is

1266

01:11:05,209 --> 01:11:02,940

it's ice

1267

01:11:07,910 --> 01:11:05,219

so you say Ice Ice Baby and then it just

1268

01:11:09,830 --> 01:11:07,920

happens right just ice

1269

01:11:11,510 --> 01:11:09,840

all right and you have a lot of support

1270

01:11:13,250 --> 01:11:11,520

here can you tell me a little bit about

1271

01:11:14,630 --> 01:11:13,260

your sponsors

1272

01:11:16,370 --> 01:11:14,640

um so we're sponsored by American

1273

01:11:18,830 --> 01:11:16,380

Machinery group

1274

01:11:21,830 --> 01:11:18,840

um there we have an alumni who works

1275

01:11:23,870 --> 01:11:21,840

there who helps us with um a lot of some

1276

01:11:25,790 --> 01:11:23,880

a lot of components that he he's just a

1277

01:11:29,030 --> 01:11:25,800

really big wealth of knowledge that we

1278

01:11:31,010 --> 01:11:29,040

are so lucky to have and we we try and

1279

01:11:34,149 --> 01:11:31,020

make the best use of that resource that

1280

01:11:39,050 --> 01:11:37,430

Outfitters did our Wheels um for us

1281

01:11:41,270 --> 01:11:39,060

um it's a pretty odd request to get

1282

01:11:43,669 --> 01:11:41,280

these wheels scented the truck bed liner

1283

01:11:45,350 --> 01:11:43,679

so we really appreciate that awesome

1284

01:11:46,790 --> 01:11:45,360

well I know we want to thank the parents

1285

01:11:48,470 --> 01:11:46,800

out there we want to thank all the

1286

01:11:51,110 --> 01:11:48,480

people and the teachers who helped lead

1287

01:11:52,910 --> 01:11:51,120

these high school teams and I wish you

1288

01:11:54,770 --> 01:11:52,920

guys the best today on the course all

1289

01:13:03,709 --> 01:11:54,780

right we're gonna get you guys on here

1290

01:13:03,719 --> 01:15:57,709

okay

1291

01:15:57,719 --> 01:18:00,410

foreign

1292

01:18:05,930 --> 01:18:03,290

we're back at the human exploration

1293

01:18:08,030 --> 01:18:05,940

Rover challenge hurt for short I'm here

1294

01:18:09,950 --> 01:18:08,040

with Florida Atlantic University is that

1295

01:18:11,870 --> 01:18:09,960

right all right and what is your name

1296

01:18:13,310 --> 01:18:11,880

Martin Palm all right Martin and what

1297

01:18:15,410 --> 01:18:13,320

are you studying in school uh mechanical

1298

01:18:16,850 --> 01:18:15,420

engineering fantastic so let's talk a

1299

01:18:19,550 --> 01:18:16,860

little bit about yesterday had some

1300

01:18:22,070 --> 01:18:19,560

trouble with your drive train uh we had

1301

01:18:23,810 --> 01:18:22,080

our fantastic co-pilot here pushing all

1302

01:18:25,729 --> 01:18:23,820

the weight yesterday and what did you do

1303

01:18:27,350 --> 01:18:25,739

to fix that well we went ahead and

1304

01:18:28,850 --> 01:18:27,360

replaced the Freewheel in the left wheel

1305

01:18:30,790 --> 01:18:28,860

and the keyway that drives the right

1306

01:18:33,070 --> 01:18:30,800

wheel so both systems broke yesterday

1307

01:18:35,930 --> 01:18:33,080

and we should be good for today

1308

01:18:38,270 --> 01:18:35,940

fantastic and what is your name Deanna

1309

01:18:41,209 --> 01:18:38,280

Jean Baptiste all right and you are

1310

01:18:42,530 --> 01:18:41,219

glaming it out I'm loving these glasses

1311

01:18:44,209 --> 01:18:42,540

um tell me a little bit about how

1312

01:18:45,709 --> 01:18:44,219

yesterday felt to you

1313

01:18:47,750 --> 01:18:45,719

um yesterday was definitely a challenge

1314

01:18:49,729 --> 01:18:47,760

but I feel like with our communication

1315

01:18:52,970 --> 01:18:49,739

we definitely chugged it through yeah

1316

01:18:54,890 --> 01:18:52,980

and you learn by failures right and so

1317

01:18:56,330 --> 01:18:54,900

tell me a little bit about what you are

1318

01:18:57,890 --> 01:18:56,340

studying in college I'm studying

1319

01:18:59,930 --> 01:18:57,900

mechanical engineering as well both

1320

01:19:02,030 --> 01:18:59,940

mechanical Engineers talk to me about

1321

01:19:04,070 --> 01:19:02,040

this three-wheel design the three wheel

1322

01:19:06,350 --> 01:19:04,080

design is amazing I feel like it helps

1323

01:19:08,810 --> 01:19:06,360

us get maneuver better rather than

1324

01:19:10,910 --> 01:19:08,820

before yeah you really had some great uh

1325

01:19:13,010 --> 01:19:10,920

jobs doing trying is that the slalom is

1326

01:19:15,290 --> 01:19:13,020

that yeah you guys really worked that

1327

01:19:16,669 --> 01:19:15,300

one yesterday and

1328

01:19:19,430 --> 01:19:16,679

um how long did it take you guys to get

1329

01:19:20,990 --> 01:19:19,440

up here uh 12 hour drive you know just a

1330

01:19:23,090 --> 01:19:21,000

little while

1331

01:19:24,709 --> 01:19:23,100

uh talk to me about you have a lot of

1332

01:19:26,990 --> 01:19:24,719

support here a lot of people here to

1333

01:19:29,510 --> 01:19:27,000

thank uh who helped you out with this

1334

01:19:30,950 --> 01:19:29,520

well so we're a senior design team so we

1335

01:19:32,510 --> 01:19:30,960

had you know seven of us working on this

1336

01:19:34,669 --> 01:19:32,520

got this Rover built we had our machine

1337

01:19:36,410 --> 01:19:34,679

shop teacher that's with us

1338

01:19:38,390 --> 01:19:36,420

um Fred and he helped us get all this

1339

01:19:39,770 --> 01:19:38,400

designed helped us you know plan out how

1340

01:19:42,050 --> 01:19:39,780

we should operate the machines what we

1341

01:19:43,669 --> 01:19:42,060

should do and of course a huge thanks to

1342

01:19:45,590 --> 01:19:43,679

parental figures like my father and

1343

01:19:46,610 --> 01:19:45,600

grandfather just helping out with a

1344

01:19:48,830 --> 01:19:46,620

little bit of engineering thought

1345

01:19:50,149 --> 01:19:48,840

process making sure everything was safe

1346

01:19:52,250 --> 01:19:50,159

and look good

1347

01:19:53,630 --> 01:19:52,260

fantastic and is there anything that you

1348

01:19:55,610 --> 01:19:53,640

guys are going to try on the course

1349

01:19:57,590 --> 01:19:55,620

today that maybe you didn't get a chance

1350

01:19:58,790 --> 01:19:57,600

to do yesterday

1351

01:20:00,830 --> 01:19:58,800

um we definitely want to try the

1352

01:20:02,510 --> 01:20:00,840

boulders today we do want to pick up

1353

01:20:04,729 --> 01:20:02,520

some more samples as well but we just

1354

01:20:06,470 --> 01:20:04,739

want to keep safety as our main priority

1355

01:20:08,870 --> 01:20:06,480

fantastic well I'm gonna wish you guys

1356

01:20:10,729 --> 01:20:08,880

the best of luck everything looks good

1357

01:20:11,990 --> 01:20:10,739

and we'll see you guys at the Finish

1358

01:22:29,980 --> 01:20:12,000

Line yeah

1359

01:22:29,990 --> 01:23:08,090

[Music]

1360

01:23:08,100 --> 01:23:54,050

how's it going

1361

01:23:58,790 --> 01:23:56,570

hey there I am Beth Ridgeway with

1362

01:24:01,250 --> 01:23:58,800

Marshall space flight center we are here

1363

01:24:03,410 --> 01:24:01,260

in beautiful Huntsville Alabama today at

1364

01:24:05,270 --> 01:24:03,420

the U.S Space and Rocket Center here at

1365

01:24:07,370 --> 01:24:05,280

the aviation challenge course I'm here

1366

01:24:09,470 --> 01:24:07,380

with Texas Tech right now they're about

1367

01:24:11,750 --> 01:24:09,480

to take on to this course about to take

1368

01:24:13,490 --> 01:24:11,760

this challenge uh how you feeling how

1369

01:24:14,990 --> 01:24:13,500

did yesterday go

1370

01:24:16,729 --> 01:24:15,000

um pretty good we made it all the way

1371

01:24:18,290 --> 01:24:16,739

through the course like by pedaling the

1372

01:24:20,930 --> 01:24:18,300

Rover so we're pretty proud about that

1373

01:24:23,149 --> 01:24:20,940

our plan today is to just get done in

1374

01:24:24,350 --> 01:24:23,159

under eight minutes okay so I see that

1375

01:24:26,090 --> 01:24:24,360

you're all wearing your engineering

1376

01:24:28,550 --> 01:24:26,100

teams you're both mechanical engineers

1377

01:24:30,050 --> 01:24:28,560

what did you do to kind of work on some

1378

01:24:32,990 --> 01:24:30,060

of your problems yesterday

1379

01:24:35,030 --> 01:24:33,000

uh we had actually our back axle part of

1380

01:24:36,770 --> 01:24:35,040

it sheared in half

1381

01:24:38,450 --> 01:24:36,780

um so we had to replace that par we got

1382

01:24:41,090 --> 01:24:38,460

it done at the machine shop and put it

1383

01:24:42,709 --> 01:24:41,100

back on and then our seats were a little

1384

01:24:44,209 --> 01:24:42,719

flimsy yesterday so we kind of beef

1385

01:24:46,010 --> 01:24:44,219

those up so we have a lot of power to

1386

01:24:47,390 --> 01:24:46,020

push back onto oh that's fantastic

1387

01:24:49,370 --> 01:24:47,400

because you kind of need that to get up

1388

01:24:51,229 --> 01:24:49,380

those heels and over those bumps and

1389

01:24:52,970 --> 01:24:51,239

what is your name I'm Jason kondikoff

1390

01:24:54,410 --> 01:24:52,980

all right Jason what are you studying in

1391

01:24:55,910 --> 01:24:54,420

school you're both mechanical engineers

1392

01:24:57,950 --> 01:24:55,920

right yes but I'm mechanical engineering

1393

01:25:01,850 --> 01:24:57,960

what did you guys do to train for this

1394

01:25:03,890 --> 01:25:01,860

uh mostly just gym work cycling uh we

1395

01:25:05,209 --> 01:25:03,900

had a little pilot like competition to

1396

01:25:07,070 --> 01:25:05,219

figure out who's doing it and then from

1397

01:25:09,050 --> 01:25:07,080

that point on once I got it I just was

1398

01:25:11,209 --> 01:25:09,060

in the gym you know trying to train

1399

01:25:13,370 --> 01:25:11,219

cardio and strength so yeah get those

1400

01:25:15,890 --> 01:25:13,380

reps in and do you uh have a playlist

1401
01:25:17,930 --> 01:25:15,900
that you guys were listening to to kind

1402
01:25:19,250 --> 01:25:17,940
of work on that

1403
01:25:20,510 --> 01:25:19,260
um oh definitely we definitely have a

1404
01:25:21,830 --> 01:25:20,520
hype playlist that we've been going on

1405
01:25:23,270 --> 01:25:21,840
we were just listening to Eye of the

1406
01:25:24,729 --> 01:25:23,280
Tiger so that was like getting us

1407
01:25:27,290 --> 01:25:24,739
getting us ready for competition

1408
01:25:28,790 --> 01:25:27,300
absolutely so is there anything that

1409
01:25:30,709 --> 01:25:28,800
you'd like to talk about your Rover that

1410
01:25:32,030 --> 01:25:30,719
you're really proud of uh we really like

1411
01:25:34,370 --> 01:25:32,040
our Wheels we've been getting a lot of

1412
01:25:36,950 --> 01:25:34,380
compliments on those so far uh so

1413
01:25:38,990 --> 01:25:36,960

basically we cut out from a aluminum

1414

01:25:41,090 --> 01:25:39,000

plate on the CNC plasma cutter the

1415

01:25:44,810 --> 01:25:41,100

double T's and then the circles are

1416

01:25:47,810 --> 01:25:44,820

actually PVC and then the tire tread is

1417

01:25:49,189 --> 01:25:47,820

um 3D printed TPU oh my goodness so how

1418

01:25:51,649 --> 01:25:49,199

long did it take to 3D print something

1419

01:25:53,990 --> 01:25:51,659

like that I think each tread took about

1420

01:25:57,229 --> 01:25:54,000

24 hours you know so not a long time

1421

01:25:58,550 --> 01:25:57,239

just we weren't waiting at all all right

1422

01:25:59,990 --> 01:25:58,560

well we are going to wait for you guys

1423

01:26:02,629 --> 01:26:00,000

to get over there we'll see you at your

1424

01:26:16,550 --> 01:26:02,639

Finish Line best of luck to you and way

1425

01:26:16,560 --> 01:27:17,209

thank you

1426

01:27:17,219 --> 01:31:05,810

I'll take one

1427

01:31:09,350 --> 01:31:08,270

if someone's coming to relieve eight and

1428

01:32:13,850 --> 01:31:09,360

there's any more of those little chicken

1429

01:32:18,709 --> 01:32:16,370

hey good morning we are here streaming

1430

01:32:20,930 --> 01:32:18,719

live on YouTube and Facebook and over on

1431

01:32:22,550 --> 01:32:20,940

NASA TV we are here with another team

1432

01:32:24,530 --> 01:32:22,560

right here at the starting line we're

1433

01:32:26,390 --> 01:32:24,540

very excited we're here in Huntsville

1434

01:32:28,129 --> 01:32:26,400

Alabama at the U.S Space and Rocket

1435

01:32:29,689 --> 01:32:28,139

Center we're here on the aviation course

1436

01:32:33,169 --> 01:32:29,699

this is the first time that we've had

1437

01:32:36,530 --> 01:32:33,179

this 29 years next year will be 30 for

1438

01:32:37,729 --> 01:32:36,540

the human exploration Rover challenge uh

1439

01:32:39,770 --> 01:32:37,739

can you tell me your name and what

1440

01:32:41,290 --> 01:32:39,780

school you're from all right my name is

1441

01:32:44,209 --> 01:32:41,300

Mariana

1442

01:32:46,729 --> 01:32:44,219

we are from Bolivia from University from

1443

01:32:48,709 --> 01:32:46,739

University of Catholics

1444

01:32:50,709 --> 01:32:48,719

fantastic so how did the course go

1445

01:32:53,090 --> 01:32:50,719

yesterday for you guys

1446

01:32:56,330 --> 01:32:53,100

we have many problems with everyone

1447

01:32:59,689 --> 01:32:56,340

although we finish the the course but

1448

01:33:01,669 --> 01:32:59,699

not in the time today we are planning on

1449

01:33:04,250 --> 01:33:01,679

doing that and we are really excited

1450

01:33:06,290 --> 01:33:04,260

yeah you guys look ready you have some

1451
01:33:08,530 --> 01:33:06,300
friends behind you here to cheer you on

1452
01:33:22,550 --> 01:33:08,540
we have

1453
01:33:24,590 --> 01:33:22,560
wolf mascot behind you tell me a little

1454
01:33:27,290 --> 01:33:24,600
bit about your mascot yeah this is a

1455
01:33:28,490 --> 01:33:27,300
wolf and you represent our career or

1456
01:33:30,830 --> 01:33:28,500
College

1457
01:33:32,750 --> 01:33:30,840
fantastic and uh is there anything that

1458
01:33:36,530 --> 01:33:32,760
you guys did to train for this

1459
01:33:38,689 --> 01:33:36,540
dad and we had to we had to make some

1460
01:33:42,530 --> 01:33:38,699
tests for the robber to make the

1461
01:33:45,050 --> 01:33:42,540
obstacles the tasks and making strategy

1462
01:33:46,629 --> 01:33:45,060
for that right and tell me a little bit

1463
01:33:49,370 --> 01:33:46,639

about what you're studying in college

1464

01:33:51,770 --> 01:33:49,380

and we are all from mechatronics

1465

01:33:54,890 --> 01:33:51,780

engineering and we are majoring in that

1466

01:33:56,990 --> 01:33:54,900

and we are students from all years so it

1467

01:33:59,510 --> 01:33:57,000

is really diverse we are we are also

1468

01:34:01,669 --> 01:33:59,520

with a person from marketing that's

1469

01:34:04,910 --> 01:34:01,679

helping us with the photos and all the

1470

01:34:07,729 --> 01:34:04,920

branding of the team and so yeah we are

1471

01:34:09,890 --> 01:34:07,739

we're at lab and it takes a lot to get

1472

01:34:11,390 --> 01:34:09,900

you here from Bolivia you guys had to

1473

01:34:12,830 --> 01:34:11,400

get through a lot of challenges any kind

1474

01:34:15,290 --> 01:34:12,840

of people that you'd like to thank or

1475

01:34:17,570 --> 01:34:15,300

think any of your sponsors yeah we would

1476

01:34:20,149 --> 01:34:17,580

like to thank first of all to our family

1477

01:34:24,950 --> 01:34:20,159

to our friends to our University that

1478

01:34:28,370 --> 01:34:24,960

help us being here to boa that's on air

1479

01:34:32,030 --> 01:34:28,380

airplanes company that made us where is

1480

01:34:35,870 --> 01:34:32,040

our sponsors So to that to also our all

1481

01:34:37,910 --> 01:34:35,880

our other sponsors and yeah so we are

1482

01:34:41,090 --> 01:34:37,920

really excited and thank you all for

1483

01:34:43,550 --> 01:34:41,100

helping us being here for all your

1484

01:34:45,470 --> 01:34:43,560

support we are so glad that you are here

1485

01:34:46,520 --> 01:34:45,480

ready to take the course can I get one

1486

01:34:49,310 --> 01:34:46,530

more cheer yeah

1487

01:34:57,350 --> 01:34:49,320

[Music]

1488

01:37:57,709 --> 01:34:57,360

fantastic all right you guys good luck

1489

01:37:57,719 --> 01:39:16,729

classic

1490

01:41:26,870 --> 01:39:21,890

foreign

1491

01:43:01,250 --> 01:41:29,149

morning

1492

01:43:01,260 --> 01:43:20,990

typically over four hours yesterday

1493

01:43:26,090 --> 01:43:23,950

rolls down

1494

01:44:40,850 --> 01:43:26,100

a little further this way or a little

1495

01:46:55,490 --> 01:45:28,850

foreign

1496

01:46:55,500 --> 01:47:20,030

oh

1497

01:47:20,040 --> 01:47:28,850

foreign

1498

01:47:33,470 --> 01:47:31,550

hey everyone welcome back to Rover

1499

01:47:35,930 --> 01:47:33,480

challenge we have another team here at

1500

01:47:37,070 --> 01:47:35,940

the starting line hey how are y'all

1501
01:47:39,169 --> 01:47:37,080
doing

1502
01:47:40,729 --> 01:47:39,179
good hey can y'all tell us what team

1503
01:47:42,229 --> 01:47:40,739
that you're with we're with Owensboro

1504
01:47:44,510 --> 01:47:42,239
Community Technical College in Kentucky

1505
01:47:45,470 --> 01:47:44,520
okay awesome and can you tell me your

1506
01:47:48,530 --> 01:47:45,480
names

1507
01:47:50,810 --> 01:47:48,540
Timmy Doris and Virginia neighbors okay

1508
01:47:52,850 --> 01:47:50,820
so tell me a little bit about your Rover

1509
01:47:54,590 --> 01:47:52,860
how did you do yesterday what are some

1510
01:47:55,970 --> 01:47:54,600
of the things that your

1511
01:47:58,189 --> 01:47:55,980
um that you learned yesterday that

1512
01:48:00,530 --> 01:47:58,199
you're going to take for it on today's

1513
01:48:03,050 --> 01:48:00,540

course yeah so yesterday we finished

1514

01:48:05,330 --> 01:48:03,060

that seven minutes and 45 seconds so we

1515

01:48:08,030 --> 01:48:05,340

have 15 seconds left to spare we

1516

01:48:10,550 --> 01:48:08,040

attempted some of the obstacles and uh

1517

01:48:12,830 --> 01:48:10,560

it took up a lot of our time it took a

1518

01:48:14,390 --> 01:48:12,840

minute and 34 seconds and so we're gonna

1519

01:48:15,890 --> 01:48:14,400

skip a couple of things today and go

1520

01:48:18,649 --> 01:48:15,900

after more tasks today

1521

01:48:20,689 --> 01:48:18,659

that sounds great and so what is your

1522

01:48:23,810 --> 01:48:20,699

like opinion of a course do you think

1523

01:48:25,310 --> 01:48:23,820

it's like was it super hard was it just

1524

01:48:28,609 --> 01:48:25,320

challenging enough

1525

01:48:30,229 --> 01:48:28,619

it's pretty hard yes I I I find it very

1526

01:48:32,990 --> 01:48:30,239

hard to probably get all this done

1527

01:48:34,729 --> 01:48:33,000

everything in eight minutes I think if

1528

01:48:37,070 --> 01:48:34,739

it's 10 minutes I think it'd be a game

1529

01:48:38,689 --> 01:48:37,080

changer for everybody but I mean we

1530

01:48:41,330 --> 01:48:38,699

gotta roll with the rules you know yeah

1531

01:48:43,550 --> 01:48:41,340

gotta roll with it um it's speaking of

1532

01:48:45,590 --> 01:48:43,560

Roland tell me about your tires because

1533

01:48:47,149 --> 01:48:45,600

these are really cool tires and that's

1534

01:48:49,550 --> 01:48:47,159

one thing that we've noticed you know

1535

01:48:51,590 --> 01:48:49,560

each team has different Wheels different

1536

01:48:54,169 --> 01:48:51,600

tires so can y'all tell us a little bit

1537

01:48:57,290 --> 01:48:54,179

about those and kind of what went into

1538

01:48:59,570 --> 01:48:57,300

your design making choices on those

1539

01:49:01,430 --> 01:48:59,580

yes um as you can see some of these

1540

01:49:03,229 --> 01:49:01,440

teams out here I mean they got flimsy

1541

01:49:04,850 --> 01:49:03,239

tires and we don't want flimsy tires

1542

01:49:06,169 --> 01:49:04,860

we're out here for durability I mean

1543

01:49:08,030 --> 01:49:06,179

you've seen what we was doing yesterday

1544

01:49:10,010 --> 01:49:08,040

I mean my goodness I was kicking the

1545

01:49:11,930 --> 01:49:10,020

tires didn't he phase it by no means

1546

01:49:13,070 --> 01:49:11,940

it's aluminum it's got rubber tread on

1547

01:49:19,910 --> 01:49:13,080

it

1548

01:49:22,609 --> 01:49:19,920

these to race in you know so

1549

01:49:25,609 --> 01:49:22,619

yeah and it's lighter and

1550

01:49:27,470 --> 01:49:25,619

yeah well they look good

1551

01:49:29,510 --> 01:49:27,480

um so I think we still have a few more

1552

01:49:32,030 --> 01:49:29,520

minutes before we

1553

01:49:33,950 --> 01:49:32,040

um are going to let you guys go so

1554

01:49:35,689 --> 01:49:33,960

there's several other

1555

01:49:38,090 --> 01:49:35,699

um Rovers that are still on the course

1556

01:49:41,330 --> 01:49:38,100

so tell us a little bit about the design

1557

01:49:43,250 --> 01:49:41,340

of your rose fur in general like um I

1558

01:49:45,350 --> 01:49:43,260

see you guys are sitting side by side

1559

01:49:47,930 --> 01:49:45,360

you know some of our rovers are sending

1560

01:49:50,390 --> 01:49:47,940

back like What's um what was you know

1561

01:49:52,070 --> 01:49:50,400

kind of your thoughts in that

1562

01:49:54,709 --> 01:49:52,080

yeah

1563

01:49:55,790 --> 01:49:54,719

we would match her over in the in the

1564

01:49:57,410 --> 01:49:55,800

Space Center

1565

01:49:58,370 --> 01:49:57,420

we was trying to match it as much as

1566

01:50:00,709 --> 01:49:58,380

possible

1567

01:50:02,930 --> 01:50:00,719

yeah because we saw like we saw the

1568

01:50:05,450 --> 01:50:02,940

durability of that so why not try to

1569

01:50:07,370 --> 01:50:05,460

have a design but two by two like that

1570

01:50:08,930 --> 01:50:07,380

um and we have like parking brakes for

1571

01:50:12,410 --> 01:50:08,940

like something you would use on a

1572

01:50:13,609 --> 01:50:12,420

bicycle that's our braking system and uh

1573

01:50:15,950 --> 01:50:13,619

um yeah

1574

01:50:18,050 --> 01:50:15,960

well hey that that totally makes sense

1575

01:50:20,390 --> 01:50:18,060

so tell me a little bit about some of

1576
01:50:24,530 --> 01:50:20,400
the obstacles that you faced yesterday

1577
01:50:27,770 --> 01:50:24,540
so especially for our viewers that are

1578
01:50:30,229 --> 01:50:27,780
tuning in today and may not have watched

1579
01:50:32,689 --> 01:50:30,239
all day yesterday so the course has

1580
01:50:35,330 --> 01:50:32,699
several different terrains that you have

1581
01:50:37,250 --> 01:50:35,340
to cross and then it also has several

1582
01:50:38,990 --> 01:50:37,260
different challenges where you have to

1583
01:50:41,510 --> 01:50:39,000
pick things up and things like that so

1584
01:50:43,189 --> 01:50:41,520
tell us about some of that okay so that

1585
01:50:45,649 --> 01:50:43,199
right there that there is for lose the

1586
01:50:47,689 --> 01:50:45,659
first off first obstacle we went a

1587
01:50:50,149 --> 01:50:47,699
little sideways and was like

1588
01:50:52,129 --> 01:50:50,159

let me just power through it and really

1589

01:50:53,870 --> 01:50:52,139

honestly the ones with the tires with

1590

01:50:56,990 --> 01:50:53,880

rocks but he's concerned it really good

1591

01:50:59,330 --> 01:50:57,000

we tried to do the Butte it failed we we

1592

01:51:00,649 --> 01:50:59,340

did the side thing yesterday I think we

1593

01:51:03,350 --> 01:51:00,659

probably the only team that accomplished

1594

01:51:05,270 --> 01:51:03,360

that but it slid it sideways before we

1595

01:51:06,649 --> 01:51:05,280

intended but we just rode with it like I

1596

01:51:08,990 --> 01:51:06,659

said I had to kick the tire to get it

1597

01:51:10,910 --> 01:51:09,000

off turning you know but every other

1598

01:51:12,410 --> 01:51:10,920

obstacle really I mean we just glided

1599

01:51:14,510 --> 01:51:12,420

right over it we went over the boaters

1600

01:51:16,490 --> 01:51:14,520

and we were shocked really and really

1601
01:51:19,430 --> 01:51:16,500
that's awesome and something too like in

1602
01:51:21,109 --> 01:51:19,440
our past octc teams side they're they

1603
01:51:22,970 --> 01:51:21,119
really struggled with the boulders and

1604
01:51:25,189 --> 01:51:22,980
that's something that we we nailed it

1605
01:51:27,350 --> 01:51:25,199
super easy for us and so in the task

1606
01:51:30,169 --> 01:51:27,360
Readiness reports that we do uh pre

1607
01:51:31,370 --> 01:51:30,179
coming to here one of our goals was to

1608
01:51:32,330 --> 01:51:31,380
go through the boulders and we went

1609
01:51:35,149 --> 01:51:32,340
through that a piece of cake without

1610
01:51:37,250 --> 01:51:35,159
tearing up our tires that is so awesome

1611
01:51:40,129 --> 01:51:37,260
well and that gets back to what you were

1612
01:51:41,450 --> 01:51:40,139
saying earlier about your tires and the

1613
01:51:43,189 --> 01:51:41,460

reason that you made them the way that

1614

01:51:46,250 --> 01:51:43,199

you did because you wanted to be able to

1615

01:51:47,689 --> 01:51:46,260

take those hard obstacles and sounds

1616

01:51:48,830 --> 01:51:47,699

like that was a really good design

1617

01:51:51,830 --> 01:51:48,840

choice

1618

01:51:54,470 --> 01:51:51,840

awesome okay so let's see if we're about

1619

01:51:58,129 --> 01:51:54,480

ready to go

1620

01:52:00,950 --> 01:51:58,139

okay so good luck and thank y'all so

1621

01:52:03,169 --> 01:52:00,960

much for being out here and

1622

01:52:36,970 --> 01:52:03,179

um we'll see you on the other side thank

1623

01:52:36,980 --> 01:55:15,830

go go

1624

01:55:21,410 --> 01:55:18,169

good morning we are here at the human

1625

01:55:23,030 --> 01:55:21,420

exploration Rover Challenge and it is a

1626

01:55:24,830 --> 01:55:23,040

beautiful day in Huntsville Alabama I'm

1627

01:55:26,510 --> 01:55:24,840

here with Team interstellars my name is

1628

01:55:28,430 --> 01:55:26,520

Beth Ridgeway from NASA's Marshall space

1629

01:55:29,689 --> 01:55:28,440

flight center and we're going to talk a

1630

01:55:32,570 --> 01:55:29,699

little bit about how it went yesterday

1631

01:55:34,550 --> 01:55:32,580

on the course okay yesterday we tried to

1632

01:55:36,290 --> 01:55:34,560

complete the track within the eight

1633

01:55:38,570 --> 01:55:36,300

minutes but we were unable to do today

1634

01:55:40,970 --> 01:55:38,580

we are army name is to complete the task

1635

01:55:43,550 --> 01:55:40,980

and the track in the eight minutes only

1636

01:55:45,709 --> 01:55:43,560

fantastic yeah and so uh can you tell me

1637

01:55:48,109 --> 01:55:45,719

your name and what are you on the team

1638

01:55:50,030 --> 01:55:48,119

my name is Adam Singh and I'm the

1639

01:55:51,229 --> 01:55:50,040

maintenance manager of the team all

1640

01:55:53,270 --> 01:55:51,239

right and what school are you guys from

1641

01:55:55,430 --> 01:55:53,280

we are from okay to go from institution

1642

01:55:57,709 --> 01:55:55,440

India all right fantastic so you guys

1643

01:55:59,390 --> 01:55:57,719

traveled a long way to get here tackled

1644

01:56:02,390 --> 01:55:59,400

the course yesterday anything that you

1645

01:56:06,470 --> 01:56:02,400

changed on the Rover from yesterday

1646

01:56:08,229 --> 01:56:06,480

we changed the direction and we even try

1647

01:56:11,950 --> 01:56:08,239

to get the

1648

01:56:15,950 --> 01:56:11,960

suspension back to the position we even

1649

01:56:18,890 --> 01:56:15,960

change the suspension plan to from the

1650

01:56:20,450 --> 01:56:18,900

original as yesterday and so uh can you

1651

01:56:21,649 --> 01:56:20,460

tell us a little bit how your pilot is

1652

01:56:24,050 --> 01:56:21,659

trained

1653

01:56:26,390 --> 01:56:24,060

uh they practiced they did cycling

1654

01:56:28,310 --> 01:56:26,400

walking jogging and now they are trying

1655

01:56:31,729 --> 01:56:28,320

to communicate and have a good

1656

01:56:34,070 --> 01:56:31,739

communication while Rover uh traversing

1657

01:56:35,750 --> 01:56:34,080

the path and do they have anything that

1658

01:56:37,310 --> 01:56:35,760

uh do they use a watch to keep up with

1659

01:56:40,250 --> 01:56:37,320

the time yeah they both have their

1660

01:56:43,070 --> 01:56:40,260

stopwatch on their hands and the neck so

1661

01:56:44,390 --> 01:56:43,080

so that they keep an eye on the time I

1662

01:56:45,530 --> 01:56:44,400

mean sometimes you gotta you gotta do

1663

01:56:47,510 --> 01:56:45,540

that and sometimes you just have to

1664

01:56:49,310 --> 01:56:47,520

bypass things to make sure there's a lot

1665

01:56:51,649 --> 01:56:49,320

of obstacles in a new course this year

1666

01:56:54,530 --> 01:56:51,659

uh is this is this how long have you

1667

01:56:56,030 --> 01:56:54,540

been coming to the challenge uh it's a

1668

01:56:56,990 --> 01:56:56,040

third time in a row that we have

1669

01:57:02,090 --> 01:56:57,000

participated

1670

01:57:06,050 --> 01:57:04,609

well we are so glad to have you here I

1671

01:57:07,729 --> 01:57:06,060

know you guys are probably ready to hit

1672

01:57:11,689 --> 01:57:07,739

the course thank you so much any

1673

01:57:15,410 --> 01:57:13,430

yeah that shouldn't be had I didn't

1674

01:57:17,149 --> 01:57:15,420

interface we have one leg place for the

1675

01:57:19,790 --> 01:57:17,159

ship when I discovered scholarship

1676
01:57:21,410 --> 01:57:19,800
fantastic all right good luck guys uh do

1677
01:57:26,330 --> 01:57:21,420
you guys want to have a team motto or a

1678
01:57:28,970 --> 01:57:26,340
team shout like a cheer yeah we have a

1679
01:57:31,250 --> 01:57:28,980
real shout like

1680
01:57:41,470 --> 01:57:31,260
okay yeah so we'll do it together all

1681
01:58:02,649 --> 01:57:44,510
yes all right thanks so much guys we're

1682
01:58:02,659 --> 01:58:08,629
get ready

1683
01:58:08,639 --> 01:58:43,760
foreign

1684
02:01:38,089 --> 01:58:54,630
[Music]

1685
02:01:38,099 --> 02:02:35,330
foreign

1686
02:02:35,340 --> 02:20:46,250
thank you

1687
02:20:50,389 --> 02:20:48,650
hi there I'm Beth Ridgeway from NASA's

1688
02:20:52,370 --> 02:20:50,399

Marshall space flight center we're here

1689

02:20:54,830 --> 02:20:52,380

at the human exploration Rover challenge

1690

02:20:57,050 --> 02:20:54,840

I'm here with Ohio Northern University

1691

02:20:58,849 --> 02:20:57,060

and can you tell me your name I'm

1692

02:21:00,590 --> 02:20:58,859

William dreamer all right William and

1693

02:21:02,450 --> 02:21:00,600

what is your major in college mechanical

1694

02:21:03,950 --> 02:21:02,460

engineering mechanical engineering you

1695

02:21:05,210 --> 02:21:03,960

know I've heard that a lot today do you

1696

02:21:06,889 --> 02:21:05,220

feel like that really helped with the

1697

02:21:08,690 --> 02:21:06,899

Rover in building everything absolutely

1698

02:21:10,250 --> 02:21:08,700

yeah all right and tell me a little bit

1699

02:21:13,429 --> 02:21:10,260

about how the course went yesterday for

1700

02:21:14,690 --> 02:21:13,439

you guys so um the course went all right

1701
02:21:16,790 --> 02:21:14,700
um we kind of got a baseline of what

1702
02:21:18,650 --> 02:21:16,800
obstacles we want to do and like looked

1703
02:21:20,929 --> 02:21:18,660
at all the tasks and everything

1704
02:21:22,370 --> 02:21:20,939
um and we cut it real close on time so I

1705
02:21:24,830 --> 02:21:22,380
think we have a better plan to make sure

1706
02:21:26,750 --> 02:21:24,840
we don't go over the time fantastic and

1707
02:21:28,670 --> 02:21:26,760
we'll go here at our co-pilot what is

1708
02:21:30,050 --> 02:21:28,680
your name uh Missy Myers all right and

1709
02:21:32,929 --> 02:21:30,060
what is your major mechanical

1710
02:21:34,010 --> 02:21:32,939
engineering yep I knew it all right talk

1711
02:21:36,710 --> 02:21:34,020
to me a little bit about how you're

1712
02:21:38,389 --> 02:21:36,720
going to tackle the task today Missy

1713
02:21:39,770 --> 02:21:38,399

um well we figured out which obstacle we

1714

02:21:42,590 --> 02:21:39,780

could get over and then match that to

1715

02:21:44,990 --> 02:21:42,600

which task we wanted to do so we're both

1716

02:21:46,370 --> 02:21:45,000

kind of doing the tasks together and did

1717

02:21:47,809 --> 02:21:46,380

it surprise you this is the first time

1718

02:21:49,730 --> 02:21:47,819

that we're here over at the U.S Space

1719

02:21:51,770 --> 02:21:49,740

and Rocket Center at the aviation

1720

02:21:54,110 --> 02:21:51,780

challenge course is this your first time

1721

02:21:56,809 --> 02:21:54,120

being here yeah it's our first year as a

1722

02:21:58,190 --> 02:21:56,819

team oh you sure know you'll run That's

1723

02:22:00,410 --> 02:21:58,200

so exciting next year's going to be year

1724

02:22:02,090 --> 02:22:00,420

30 are you planning on coming back

1725

02:22:04,730 --> 02:22:02,100

um I think the school is yeah okay

1726

02:22:06,530 --> 02:22:04,740

fantastic and is there anything on the

1727

02:22:07,790 --> 02:22:06,540

the Rover of these tires you want to

1728

02:22:09,290 --> 02:22:07,800

talk to me a little bit how you guys

1729

02:22:11,030 --> 02:22:09,300

made these

1730

02:22:13,130 --> 02:22:11,040

um everything was made in-house other

1731

02:22:15,230 --> 02:22:13,140

than the outer rim of the wheels and

1732

02:22:17,150 --> 02:22:15,240

then the pulleys and belts all right did

1733

02:22:19,969 --> 02:22:17,160

you guys do anything Team Traditions to

1734

02:22:22,790 --> 02:22:19,979

to kind of get pumped up for this we did

1735

02:22:25,130 --> 02:22:22,800

not that's okay we can start them next

1736

02:22:29,510 --> 02:22:25,140

year do you guys have any cheers or do

1737

02:22:32,750 --> 02:22:31,429

go Bears all right you guys have a fun

1738

02:22:34,370 --> 02:22:32,760

one on the course we're going to cut you

1739

02:22:53,150 --> 02:22:34,380

down in just a few minutes okay thank

1740

02:22:53,160 --> 02:24:35,870

you sound this side

1741

02:24:35,880 --> 02:25:43,190

foreign

1742

02:25:43,200 --> 02:25:52,250

Tyler Morgan

1743

02:25:52,260 --> 02:27:16,070

stop

1744

02:27:16,080 --> 02:30:38,450

foreign

1745

02:30:38,460 --> 02:31:16,130

[Music]

1746

02:31:16,140 --> 02:32:07,130

all right

1747

02:32:07,140 --> 02:35:02,630

foreign

1748

02:35:02,640 --> 02:35:16,010

remember

1749

02:35:16,020 --> 02:35:22,910

that

1750

02:35:22,920 --> 02:35:47,210

there you go

1751

02:35:47,220 --> 02:35:53,770

destroyed John's Maui James

1752

02:43:03,349 --> 02:35:56,870

is radar

1753

02:43:07,670 --> 02:43:05,450

hi there we are back on the human

1754

02:43:08,870 --> 02:43:07,680

exploration Rover challenge course we

1755

02:43:10,550 --> 02:43:08,880

have another one here at the starting

1756

02:43:12,410 --> 02:43:10,560

line we're very excited this team is

1757

02:43:14,090 --> 02:43:12,420

from Bolivia can you tell me your name

1758

02:43:16,130 --> 02:43:14,100

and what school you guys are from hello

1759

02:43:18,050 --> 02:43:16,140

my name is Cecilia Duran I'm the CEO

1760

02:43:20,270 --> 02:43:18,060

from Central Oregon Americano in Santa

1761

02:43:22,849 --> 02:43:20,280

Cruz De La Sierra Bolivia and we're very

1762

02:43:24,950 --> 02:43:22,859

excited to be here it's our second time

1763

02:43:27,170 --> 02:43:24,960

on the pit and we are with a new

1764

02:43:28,790 --> 02:43:27,180

strategy now so we are ready for the

1765

02:43:30,830 --> 02:43:28,800

second round okay so how did yesterday

1766

02:43:33,290 --> 02:43:30,840

go you said no mechanical problems but

1767

02:43:35,570 --> 02:43:33,300

more about the strategy right exactly or

1768

02:43:38,270 --> 02:43:35,580

our first time yesterday we tried to

1769

02:43:40,550 --> 02:43:38,280

check what we're gonna do what obstacles

1770

02:43:42,410 --> 02:43:40,560

we're going to pass what bypass what

1771

02:43:44,630 --> 02:43:42,420

tasks that we're going to make now we

1772

02:43:46,670 --> 02:43:44,640

have how to control time that is very

1773

02:43:48,530 --> 02:43:46,680

important right now and we have a new

1774

02:43:50,330 --> 02:43:48,540

strategy so we are ready for the second

1775

02:43:51,710 --> 02:43:50,340

round okay you say communication and

1776

02:43:53,809 --> 02:43:51,720

time is issued they're using Apple

1777

02:43:55,809 --> 02:43:53,819

watches we saw a lot of teams use that

1778

02:43:58,130 --> 02:43:55,819

and timing so if you don't get to this

1779

02:44:00,349 --> 02:43:58,140

obstacle or these tasks by this certain

1780

02:44:02,630 --> 02:44:00,359

time we'll just move on just bypass it

1781

02:44:05,030 --> 02:44:02,640

do you guys have one of the the tools to

1782

02:44:07,610 --> 02:44:05,040

kind of work on any of the liquid

1783

02:44:11,090 --> 02:44:07,620

retrieval yeah we work in a new tool we

1784

02:44:14,330 --> 02:44:11,100

just update our own tool and we also

1785

02:44:16,730 --> 02:44:14,340

check so many times in videos and the

1786

02:44:18,889 --> 02:44:16,740

lives that we have so we now already

1787

02:44:21,530 --> 02:44:18,899

know what we're gonna do all right we're

1788

02:44:24,250 --> 02:44:21,540

ready fantastic are you guys ready yes

1789

02:44:26,150 --> 02:44:24,260

can we get a cheer yay

1790

02:44:28,250 --> 02:44:26,160

[Music]

1791

02:44:29,809 --> 02:44:28,260

yeah we have a lot of people here we're

1792

02:44:46,280 --> 02:44:29,819

gonna get them kicked off in just a

1793

02:44:46,290 --> 02:44:51,290

[Applause]

1794

02:52:18,469 --> 02:47:32,510

foreign

1795

02:52:23,450 --> 02:52:22,250

Miranda were you at Mishu recently no

1796

02:53:42,050 --> 02:52:23,460

okay

1797

02:53:42,060 --> 02:53:51,590

apartment

1798

02:53:51,600 --> 02:54:06,469

thing

1799

02:54:06,479 --> 02:57:39,830

it's

1800

02:57:39,840 --> 03:01:20,269

foreign

1801
03:02:32,889 --> 03:01:24,530
to the

1802
03:02:38,510 --> 03:02:35,630
hey there I am Beth Bridgeway with

1803
03:02:40,130 --> 03:02:38,520
Marshall's NASA's the NASA's Marshall

1804
03:02:41,929 --> 03:02:40,140
space flight center it has been a day

1805
03:02:43,969 --> 03:02:41,939
today and you know what it has been a

1806
03:02:45,110 --> 03:02:43,979
day for you guys too yesterday you had a

1807
03:02:47,570 --> 03:02:45,120
little bit of problems with your drive

1808
03:02:49,809 --> 03:02:47,580
train trying to get that fixed um can

1809
03:02:51,830 --> 03:02:49,819
you tell me your name my name is Cecilia

1810
03:02:54,050 --> 03:02:51,840
all right and you guys are from Bolivia

1811
03:02:56,630 --> 03:02:54,060
and what school are you from we are from

1812
03:02:58,670 --> 03:02:56,640
military School of Engineering right

1813
03:03:01,130 --> 03:02:58,680

fantastic tell me a little bit about

1814

03:03:04,190 --> 03:03:01,140

what happened yesterday yesterday our

1815

03:03:06,530 --> 03:03:04,200

drive time messed up so we had to adapt

1816

03:03:08,630 --> 03:03:06,540

a new one and that's all about learning

1817

03:03:10,550 --> 03:03:08,640

from your failures and trying to adapt

1818

03:03:12,950 --> 03:03:10,560

and overcome seems like you guys have a

1819

03:03:17,570 --> 03:03:12,960

great attitude and how long did it take

1820

03:03:22,250 --> 03:03:20,150

all of these moms are like eight months

1821

03:03:24,170 --> 03:03:22,260

yeah eight months you have to build all

1822

03:03:26,269 --> 03:03:24,180

of this and you you shipped it over here

1823

03:03:30,170 --> 03:03:26,279

and or you brought it over with it in a

1824

03:03:32,150 --> 03:03:30,180

plane yes in the airplane yeah and so

1825

03:03:34,190 --> 03:03:32,160

talk to me a little bit about how you're

1826

03:03:38,210 --> 03:03:34,200

going to tackle this course today

1827

03:03:39,650 --> 03:03:38,220

we are so exciting and

1828

03:03:41,929 --> 03:03:39,660

we are going

1829

03:03:43,910 --> 03:03:41,939

through the old circuit yeah it's going

1830

03:03:45,769 --> 03:03:43,920

to be great for you guys and is there

1831

03:03:47,630 --> 03:03:45,779

anyone it takes a long time to get over

1832

03:03:49,849 --> 03:03:47,640

here and a lot a lot of work to put all

1833

03:03:52,309 --> 03:03:49,859

of this together is there anyone you'd

1834

03:03:54,710 --> 03:03:52,319

like to think I like to thank my parents

1835

03:03:56,870 --> 03:03:54,720

because without them I we will not be

1836

03:03:58,429 --> 03:03:56,880

here yeah well and all of the parents

1837

03:04:00,230 --> 03:03:58,439

all the teachers all the sponsors who

1838

03:04:02,570 --> 03:04:00,240

helped to work to get these teams here

1839

03:04:05,750 --> 03:04:02,580

we're very excited are we excited

1840

03:04:09,849 --> 03:04:05,760

everyone yeah yeah can we can we hear

1841

03:04:09,859 --> 03:04:13,849

oh yeah

1842

03:04:17,990 --> 03:04:16,309

all right we'll get you guys counted

1843

03:04:20,090 --> 03:04:18,000

down in just a few minutes all right

1844

03:04:30,240 --> 03:04:20,100

just keep streaming all day on Facebook

1845

03:04:30,250 --> 03:05:20,870

[Music]

1846

03:05:20,880 --> 03:05:24,110

ready

1847

03:05:24,120 --> 03:05:37,370

Rover two two zero

1848

03:06:01,290 --> 03:05:39,650

ready

1849

03:06:54,950 --> 03:06:11,260

[Music]

1850

03:06:54,960 --> 03:07:19,340

everybody

1851
03:08:39,910 --> 03:07:59,380

[Music]

1852
03:08:39,920 --> 03:09:06,640
thank you

1853
03:09:06,650 --> 03:09:50,809
[Music]

1854
03:11:29,750 --> 03:10:32,750
foreign

1855
03:11:29,760 --> 03:11:40,750
two three

1856
03:11:40,760 --> 03:12:19,570
that's the military school

1857
03:12:19,580 --> 03:12:36,410
it doesn't doesn't look

1858
03:12:36,420 --> 03:13:10,130
absolutely

1859
03:13:10,140 --> 03:14:10,790
well and I don't mind that right now

1860
03:14:10,800 --> 03:15:49,849
foreign

1861
03:15:49,859 --> 03:15:54,469
boom

1862
03:15:54,479 --> 03:16:36,130
again

1863
03:16:36,140 --> 03:16:55,849

[Music]

1864

03:16:55,859 --> 03:18:34,730

yes

1865

03:18:34,740 --> 03:19:51,469

foreign

1866

03:19:56,510 --> 03:19:54,010

all right we are here at the human

1867

03:19:57,950 --> 03:19:56,520

exploration Rover challenge we're at the

1868

03:20:00,469 --> 03:19:57,960

starting line we have another team

1869

03:20:03,290 --> 03:20:00,479

University of Central Missouri you guys

1870

03:20:05,030 --> 03:20:03,300

are bringing in this big Rover uh folded

1871

03:20:06,650 --> 03:20:05,040

up to five by five by five got through

1872

03:20:08,269 --> 03:20:06,660

an inspection how did yesterday go

1873

03:20:09,530 --> 03:20:08,279

yesterday went really good we got to the

1874

03:20:11,150 --> 03:20:09,540

end of the course and we were able to

1875

03:20:13,010 --> 03:20:11,160

attempt everything we wanted to hey

1876

03:20:15,110 --> 03:20:13,020

getting to the end is half the battle to

1877

03:20:16,910 --> 03:20:15,120

learned a couple of things yesterday and

1878

03:20:18,290 --> 03:20:16,920

now you're going to kind of tackle some

1879

03:20:19,370 --> 03:20:18,300

more things today is that right yeah

1880

03:20:21,889 --> 03:20:19,380

we're going to attempt two more

1881

03:20:22,849 --> 03:20:21,899

obstacles today so fantastic and what is

1882

03:20:24,410 --> 03:20:22,859

your name and what are you studying in

1883

03:20:25,490 --> 03:20:24,420

college uh my name is Allison I'm

1884

03:20:27,769 --> 03:20:25,500

studying mechanical engineering

1885

03:20:29,809 --> 03:20:27,779

technology oh fantastic and what about

1886

03:20:31,429 --> 03:20:29,819

you I'm Seth I'm a mechanical

1887

03:20:33,349 --> 03:20:31,439

engineering also we have so many

1888

03:20:34,730 --> 03:20:33,359

mechanical engineers here today I think

1889

03:20:35,809 --> 03:20:34,740

that really helps in putting the Rover

1890

03:20:38,690 --> 03:20:35,819

together would you

1891

03:20:41,389 --> 03:20:38,700

guys train for this uh worked out bike

1892

03:20:43,690 --> 03:20:41,399

stationary bike do you have a good

1893

03:20:46,010 --> 03:20:43,700

playlist for that always

1894

03:20:47,269 --> 03:20:46,020

what kind of artists do you listen to go

1895

03:20:49,790 --> 03:20:47,279

ahead be honest

1896

03:20:53,030 --> 03:20:49,800

get more

1897

03:20:54,830 --> 03:20:53,040

uh so let's talk about these wheels

1898

03:20:56,570 --> 03:20:54,840

right here how did you guys decide on

1899

03:20:57,889 --> 03:20:56,580

this design

1900

03:20:59,690 --> 03:20:57,899

um yeah so actually we had a different

1901

03:21:01,490 --> 03:20:59,700

wheel design uh but last week we were

1902

03:21:04,010 --> 03:21:01,500

testing on Thursday before packing it up

1903

03:21:05,210 --> 03:21:04,020

and they broke so we found old wheels in

1904

03:21:06,710 --> 03:21:05,220

the storage shed and we modified

1905

03:21:10,010 --> 03:21:06,720

everything so we could bring these along

1906

03:21:13,130 --> 03:21:10,020

so oh that's so that is that is very

1907

03:21:15,110 --> 03:21:13,140

fortuitous and very uh Innovative for

1908

03:21:17,929 --> 03:21:15,120

you guys I'm glad you had that and able

1909

03:21:19,190 --> 03:21:17,939

to to make it work and it takes a long

1910

03:21:20,870 --> 03:21:19,200

time to kind of get here from Missouri

1911

03:21:22,670 --> 03:21:20,880

and you have a lot of sponsors or

1912

03:21:24,769 --> 03:21:22,680

anybody you'd like to think yeah all of

1913

03:21:26,150 --> 03:21:24,779

our teachers we had a teacher uh Dr

1914

03:21:27,469 --> 03:21:26,160

barabus Who actually came back to the

1915

03:21:29,030 --> 03:21:27,479

university to help us with the Machining

1916

03:21:30,590 --> 03:21:29,040

and stuff of everything so yeah it's

1917

03:21:32,450 --> 03:21:30,600

been four years since we've been here so

1918

03:21:35,030 --> 03:21:32,460

I'm guessing some of the past teammates

1919

03:21:37,010 --> 03:21:35,040

and team members have passed passed on

1920

03:21:39,710 --> 03:21:37,020

graduated and did they leave you any

1921

03:21:41,269 --> 03:21:39,720

inspiration for for coming back here I

1922

03:21:43,429 --> 03:21:41,279

actually got on the team quite like in

1923

03:21:44,990 --> 03:21:43,439

the spring so I know we had some

1924

03:21:46,490 --> 03:21:45,000

documentation and stuff but we basically

1925

03:21:48,250 --> 03:21:46,500

started from scratches as far as I know

1926

03:21:51,110 --> 03:21:48,260

of so

1927

03:21:52,309 --> 03:21:51,120

hey we're very happy for that well I

1928

03:21:54,290 --> 03:21:52,319

hope you guys are going to have a good

1929

03:21:57,170 --> 03:21:54,300

one do you do you have a team cheer or

1930

03:21:59,150 --> 03:21:57,180

team motto not really all right go guys

1931

03:22:00,530 --> 03:21:59,160

that's that's what we're gonna say all

1932

03:22:21,710 --> 03:22:00,540

right good luck and we'll have him count

1933

03:22:21,720 --> 03:26:37,710

foreign

1934

03:26:37,720 --> 03:28:31,870

[Music]

1935

03:28:31,880 --> 03:28:35,210

come on

1936

03:28:35,220 --> 03:32:12,170

[Music]

1937

03:32:17,630 --> 03:32:14,870

and welcome back to NASA's live coverage

1938

03:32:20,389 --> 03:32:17,640

of the 2023 human exploration Rover

1939

03:32:22,610 --> 03:32:20,399

challenge we are at day two we're back

1940

03:32:24,410 --> 03:32:22,620

with our live commentary we've had

1941

03:32:26,809 --> 03:32:24,420

several teams come up today we've got

1942

03:32:28,610 --> 03:32:26,819

several more coming down the course we

1943

03:32:31,010 --> 03:32:28,620

have so many teams lined up it's going

1944

03:32:33,170 --> 03:32:31,020

to be a lot of great action

1945

03:32:36,469 --> 03:32:33,180

as a reminder this is the first year

1946

03:32:38,269 --> 03:32:36,479

we're back in person since 2019 for this

1947

03:32:40,809 --> 03:32:38,279

challenge Lance can you tell us a bit

1948

03:32:45,650 --> 03:32:40,819

more about the this year's competition

1949

03:32:48,889 --> 03:32:45,660

oh yeah so we know that this is uh

1950

03:32:51,410 --> 03:32:48,899

and we have teams from all over the

1951

03:32:55,130 --> 03:32:51,420

world uh eight countries are represented

1952

03:32:57,710 --> 03:32:55,140

we have uh Bolivia we have Brazil we

1953

03:33:01,370 --> 03:32:57,720

have Colombia we have we have Dominican

1954

03:33:05,269 --> 03:33:01,380

Republic we have India we also have Peru

1955

03:33:06,910 --> 03:33:05,279

and Singapore and Mexico so lots of

1956

03:33:09,229 --> 03:33:06,920

representation internationally

1957

03:33:11,389 --> 03:33:09,239

absolutely and we are in the 29th year

1958

03:33:14,030 --> 03:33:11,399

of the competition can you tell us a

1959

03:33:16,729 --> 03:33:14,040

little bit more about the history oh yes

1960

03:33:20,809 --> 03:33:16,739

so uh this competition has had several

1961

03:33:25,210 --> 03:33:20,819

names it started in 1994 and it was

1962

03:33:28,010 --> 03:33:25,220

known as the uh great uh moon buggy race

1963

03:33:30,769 --> 03:33:28,020

and uh the name changed to Rover

1964

03:33:33,110 --> 03:33:30,779

Challenge and then most recently to the

1965

03:33:36,170 --> 03:33:33,120

human exploration Rover Challenge and

1966

03:33:37,849 --> 03:33:36,180

that acronym is a hurt right yeah you'll

1967

03:33:40,610 --> 03:33:37,859

hear us say herc a lot and that's that's

1968

03:33:43,130 --> 03:33:40,620

what that stands for but yeah we have 48

1969

03:33:44,929 --> 03:33:43,140

teams competing in Perth this year uh

1970

03:33:47,210 --> 03:33:44,939

we've had like I said we've had several

1971

03:33:49,610 --> 03:33:47,220

teams go we got eight rookie teams it's

1972

03:33:51,170 --> 03:33:49,620

really cool to see them but it's not a

1973

03:33:53,030 --> 03:33:51,180

disadvantage to be a rookie team because

1974

03:33:55,010 --> 03:33:53,040

this is a whole new course we're at yes

1975

03:33:56,630 --> 03:33:55,020

this is the aviation challenge at the

1976

03:33:59,750 --> 03:33:56,640

U.S space

1977

03:34:01,729 --> 03:33:59,760

this new course has 10 obstacles five

1978

03:34:03,290 --> 03:34:01,739

tasks that they can complete along the

1979

03:34:07,969 --> 03:34:03,300

way can you talk a little bit more about

1980

03:34:10,550 --> 03:34:07,979

uh the course oh yes so uh each team has

1981

03:34:12,349 --> 03:34:10,560

uh two pilots one male one female and

1982

03:34:16,610 --> 03:34:12,359

they have to compete complete the course

1983

03:34:19,130 --> 03:34:16,620

uh in eight minutes and uh the idea is

1984

03:34:21,290 --> 03:34:19,140

to accumulate points uh with each

1985

03:34:23,269 --> 03:34:21,300

obstacle and they also have the option

1986

03:34:26,570 --> 03:34:23,279

to bypass

1987

03:34:29,510 --> 03:34:26,580

uh another interesting uh fact about the

1988

03:34:33,290 --> 03:34:29,520

um competition is that their Rovers

1989

03:34:38,990 --> 03:34:33,300

actually uh replicate a payload rocket

1990

03:34:43,130 --> 03:34:41,090

that means a lot to us because we're

1991

03:34:48,469 --> 03:34:43,140

home of the uh payload operations

1992

03:34:48,479 --> 03:34:53,809

um

1993

03:34:57,530 --> 03:34:56,210

yes we'll also get into a little behind

1994

03:34:59,150 --> 03:34:57,540

the scenes look and we actually have

1995

03:35:00,349 --> 03:34:59,160

some of that

1996

03:35:02,330 --> 03:35:00,359

we're going to give you a behind the

1997

03:35:04,429 --> 03:35:02,340

scenes

1998

03:35:07,729 --> 03:35:04,439

with our colleague Lauren so we're going

1999

03:35:11,809 --> 03:35:09,530

thanks Alyssa yeah I'm here with

2000

03:35:13,729 --> 03:35:11,819

Escambia High School and please tell me

2001
03:35:14,870 --> 03:35:13,739
your name and does your Rover have a

2002
03:35:18,950 --> 03:35:14,880
name

2003
03:35:21,050 --> 03:35:18,960
team lead and our Rover we actually just

2004
03:35:23,750 --> 03:35:21,060
named it yesterday

2005
03:35:26,809 --> 03:35:23,760
um we were issued the number 187 and one

2006
03:35:29,210 --> 03:35:26,819
of the judges told us that 187 is the

2007
03:35:31,370 --> 03:35:29,220
police code for homicide so we've named

2008
03:35:32,750 --> 03:35:31,380
her homicide because y'all killed it

2009
03:35:35,450 --> 03:35:32,760
yesterday

2010
03:35:36,769 --> 03:35:35,460
we definitely killed it today awesome

2011
03:35:37,910 --> 03:35:36,779
okay so we're going to talk a little bit

2012
03:35:39,650 --> 03:35:37,920
more about the Rover let's start with

2013
03:35:41,870 --> 03:35:39,660

the wheels that's really uh kind of

2014

03:35:44,929 --> 03:35:41,880

everybody's favorite part because no

2015

03:35:46,130 --> 03:35:44,939

wheels are anywhere alike at all you

2016

03:35:48,290 --> 03:35:46,140

couldn't buy Wheels you couldn't have

2017

03:35:50,750 --> 03:35:48,300

normal air in the tire wheel so talk to

2018

03:35:52,790 --> 03:35:50,760

me about your wheel design okay so our

2019

03:35:55,790 --> 03:35:52,800

Wheels um we have been building up from

2020

03:35:57,530 --> 03:35:55,800

previous years but um the whole entire

2021

03:35:58,910 --> 03:35:57,540

center part is redesigned so of course

2022

03:36:00,530 --> 03:35:58,920

we have aluminum hubs that we

2023

03:36:03,410 --> 03:36:00,540

manufactured

2024

03:36:05,210 --> 03:36:03,420

um they're Hollow and then here these

2025

03:36:06,830 --> 03:36:05,220

spokes are made out of carbon fiber and

2026

03:36:08,450 --> 03:36:06,840

epoxy

2027

03:36:11,030 --> 03:36:08,460

um and they have wooden veneers in the

2028

03:36:13,309 --> 03:36:11,040

middle to lay down weight we just molded

2029

03:36:16,250 --> 03:36:13,319

them and shaped them and then a lot of

2030

03:36:17,809 --> 03:36:16,260

cutting down we have carbon fiber rims

2031

03:36:20,630 --> 03:36:17,819

and then a really cool part of the

2032

03:36:22,849 --> 03:36:20,640

wheels is actually the Treads so each

2033

03:36:27,469 --> 03:36:22,859

tread each wheel consists of three

2034

03:36:29,630 --> 03:36:27,479

Treads um pieces and the design was made

2035

03:36:33,110 --> 03:36:29,640

up in CAD by one of our students and

2036

03:36:33,889 --> 03:36:33,120

then afterwards um they put

2037

03:36:35,870 --> 03:36:33,899

um

2038

03:36:39,050 --> 03:36:35,880

silicone they made it into a silicone

2039

03:36:41,510 --> 03:36:39,060

mold and then poured polyurethane into

2040

03:36:43,190 --> 03:36:41,520

it and the um they're attached with

2041

03:36:45,590 --> 03:36:43,200

thick epoxy

2042

03:36:47,510 --> 03:36:45,600

but they have little

2043

03:36:49,130 --> 03:36:47,520

um carbon fiber like twine wrapping

2044

03:36:51,530 --> 03:36:49,140

around to really keep everything intact

2045

03:36:53,210 --> 03:36:51,540

because Treads flying off was a big

2046

03:36:55,309 --> 03:36:53,220

concern but we didn't have any problems

2047

03:36:57,229 --> 03:36:55,319

with it so and I hope that y'all can see

2048

03:36:58,790 --> 03:36:57,239

they are orange which is school colors

2049

03:37:02,389 --> 03:36:58,800

I'm assuming yes there's lots of orange

2050

03:37:04,910 --> 03:37:02,399

also orange and blue okay so next up

2051

03:37:06,530 --> 03:37:04,920

let's talk a little bit about the um the

2052

03:37:09,530 --> 03:37:06,540

petals and how you know you actually

2053

03:37:11,809 --> 03:37:09,540

have to get through the course okay so

2054

03:37:14,150 --> 03:37:11,819

um we took inspiration from Triathlon so

2055

03:37:16,309 --> 03:37:14,160

our petals are really small

2056

03:37:18,769 --> 03:37:16,319

but that's because we use Triathlon

2057

03:37:21,229 --> 03:37:18,779

shoes for our drivers to click in to

2058

03:37:23,210 --> 03:37:21,239

drive and one thing you'll notice is

2059

03:37:25,490 --> 03:37:23,220

that um the seat in the back is actually

2060

03:37:27,530 --> 03:37:25,500

facing backwards but the back driver

2061

03:37:29,929 --> 03:37:27,540

does not have to Pedal backwards inside

2062

03:37:32,929 --> 03:37:29,939

the chassis here we do have a gearbox

2063

03:37:35,030 --> 03:37:32,939

that reverses it so the back so you can

2064

03:37:36,290 --> 03:37:35,040

pedal forwards which produces more power

2065

03:37:38,150 --> 03:37:36,300

for going up the hills and over

2066

03:37:40,670 --> 03:37:38,160

obstacles

2067

03:37:42,229 --> 03:37:40,680

um so they gain that power but we don't

2068

03:37:43,849 --> 03:37:42,239

have to sacrifice anything it's more

2069

03:37:46,429 --> 03:37:43,859

space-saving and efficient that way

2070

03:37:47,990 --> 03:37:46,439

awesome okay and we you already kind of

2071

03:37:49,429 --> 03:37:48,000

mentioned the seats and the pilots so

2072

03:37:50,630 --> 03:37:49,439

talk to me a little bit about those I

2073

03:37:52,790 --> 03:37:50,640

mean you've got an eight minute course

2074

03:37:55,729 --> 03:37:52,800

but they need to be comfortable right oh

2075

03:37:57,229 --> 03:37:55,739

yes so on our first run yesterday our

2076

03:37:59,570 --> 03:37:57,239

back pilot our female pilot actually

2077

03:38:01,729 --> 03:37:59,580

made it aware to us that

2078

03:38:04,610 --> 03:38:01,739

um the back seat was a little rough to

2079

03:38:06,469 --> 03:38:04,620

ride on and they are older seats um we

2080

03:38:08,510 --> 03:38:06,479

did make these uh our school made these

2081

03:38:10,250 --> 03:38:08,520

a couple years back there the seat bases

2082

03:38:11,750 --> 03:38:10,260

are made out of carbon fiber and then it

2083

03:38:13,910 --> 03:38:11,760

has padding

2084

03:38:16,670 --> 03:38:13,920

um but we've put like pool noodles on

2085

03:38:17,809 --> 03:38:16,680

top just to kind of make it more

2086

03:38:20,269 --> 03:38:17,819

comfortable because at the end of the

2087

03:38:22,190 --> 03:38:20,279

day once we get to Huntsville that's the

2088

03:38:23,809 --> 03:38:22,200

whole purpose is to make things run as

2089

03:38:26,150 --> 03:38:23,819

smoothly for the drivers as we possibly

2090

03:38:28,010 --> 03:38:26,160

can resourceful I like the use of pool

2091

03:38:30,290 --> 03:38:28,020

noodles okay so next up we're going to

2092

03:38:32,090 --> 03:38:30,300

talk about the chassis because that's

2093

03:38:34,010 --> 03:38:32,100

kind of the whole frame the skeleton so

2094

03:38:36,530 --> 03:38:34,020

talk to me about your design there okay

2095

03:38:38,090 --> 03:38:36,540

so I'm actually at my school we divide

2096

03:38:40,250 --> 03:38:38,100

building the Rover to three teams we do

2097

03:38:43,250 --> 03:38:40,260

Wheels drive train and Chassis and I was

2098

03:38:44,330 --> 03:38:43,260

on the chassis team so our chassis um is

2099

03:38:47,090 --> 03:38:44,340

kind of unique because it's actually

2100

03:38:49,370 --> 03:38:47,100

made out of wood it's Hollow on the

2101

03:38:52,250 --> 03:38:49,380

inside it's made out of

2102

03:38:55,190 --> 03:38:52,260

um Cherry veneer and we layered seven

2103

03:38:56,809 --> 03:38:55,200

layers of that with the grains oriented

2104

03:38:58,670 --> 03:38:56,819

in different directions so it gives us

2105

03:39:01,309 --> 03:38:58,680

strength

2106

03:39:03,710 --> 03:39:01,319

um and then inside of it in order to

2107

03:39:05,570 --> 03:39:03,720

mount like um the drive system and the

2108

03:39:07,490 --> 03:39:05,580

drive shafts and the wheels and all of

2109

03:39:09,530 --> 03:39:07,500

that we have um a different type of wood

2110

03:39:11,809 --> 03:39:09,540

called catalogs and they're just it's a

2111

03:39:13,429 --> 03:39:11,819

very dense wood so it made it so that we

2112

03:39:14,990 --> 03:39:13,439

could drill everything into it without

2113

03:39:17,150 --> 03:39:15,000

anything shifting it's light because

2114

03:39:19,729 --> 03:39:17,160

it's Hollow but then everything's epoxy

2115

03:39:21,769 --> 03:39:19,739

together and it's really sturdy that is

2116

03:39:24,110 --> 03:39:21,779

awesome okay I also want to talk about

2117

03:39:25,790 --> 03:39:24,120

it looks like this is just the the seat

2118

03:39:26,690 --> 03:39:25,800

in the pedal so we may have to step up

2119

03:39:28,490 --> 03:39:26,700

there

2120

03:39:29,450 --> 03:39:28,500

um for the steering mechanism I want to

2121

03:39:31,910 --> 03:39:29,460

hear a little bit more about this

2122

03:39:35,030 --> 03:39:31,920

because again every Rover has its unique

2123

03:39:36,889 --> 03:39:35,040

way of steering their Rover so our

2124

03:39:38,389 --> 03:39:36,899

steering mechanism is brand new this

2125

03:39:40,309 --> 03:39:38,399

year um we cut out all the steel and

2126

03:39:42,110 --> 03:39:40,319

aluminum parts

2127

03:39:43,969 --> 03:39:42,120

um they're just hydraulic brakes we

2128

03:39:46,190 --> 03:39:43,979

didn't manufacture the brakes but it's

2129

03:39:48,530 --> 03:39:46,200

just um a telescoping shaft in the

2130

03:39:50,150 --> 03:39:48,540

middle so when we steer it

2131

03:39:53,570 --> 03:39:50,160

um there is a shaft that runs through

2132

03:39:55,670 --> 03:39:53,580

the center beam of the chassis and

2133

03:39:58,429 --> 03:39:55,680

um these arms right here will pull it in

2134

03:39:59,990 --> 03:39:58,439

either direction to shift the wheels

2135

03:40:02,510 --> 03:40:00,000

um sort of like a bicycle's front wheel

2136

03:40:04,250 --> 03:40:02,520

but since it goes all the way through it

2137

03:40:06,110 --> 03:40:04,260

shifts both and the steering is just in

2138

03:40:07,370 --> 03:40:06,120

the front there's no back steering yeah

2139

03:40:09,349 --> 03:40:07,380

and like

2140

03:40:10,670 --> 03:40:09,359

Drive kind of thing yeah it makes

2141

03:40:13,729 --> 03:40:10,680

perfect sense

2142

03:40:16,250 --> 03:40:13,739

um finally accessories that's the fun

2143

03:40:19,010 --> 03:40:16,260

part where's the creativity here okay so

2144

03:40:21,110 --> 03:40:19,020

uh an important accessory we have a

2145

03:40:22,190 --> 03:40:21,120

stopwatch on the back seat there orange

2146

03:40:24,110 --> 03:40:22,200

of course

2147

03:40:25,729 --> 03:40:24,120

um so that our driver can use it our

2148

03:40:26,990 --> 03:40:25,739

back driver can use it um because the

2149

03:40:29,030 --> 03:40:27,000

front driver has to be focused about

2150

03:40:31,070 --> 03:40:29,040

doing stuff but they can call time

2151

03:40:32,870 --> 03:40:31,080

because getting in in under eight

2152

03:40:34,969 --> 03:40:32,880

minutes even if we do all the obstacles

2153

03:40:36,290 --> 03:40:34,979

and everything it's it won't help us if

2154

03:40:39,110 --> 03:40:36,300

we don't get in over the eight minute

2155

03:40:40,969 --> 03:40:39,120

line so that was really important to

2156

03:40:43,250 --> 03:40:40,979

have that and then

2157

03:40:45,710 --> 03:40:43,260

um we have a clip here

2158

03:40:48,349 --> 03:40:45,720

um made out of Plexiglas that holds in

2159

03:40:50,990 --> 03:40:48,359

our tool so it's just a plexiglass sheet

2160

03:40:52,790 --> 03:40:51,000

and then some um metal arms that convex

2161

03:40:55,370 --> 03:40:52,800

out in order to hold it in place and

2162

03:40:57,410 --> 03:40:55,380

then the last one

2163

03:41:00,110 --> 03:40:57,420

that I really like um you can't really

2164

03:41:00,950 --> 03:41:00,120

see them but we have little

2165

03:41:05,510 --> 03:41:00,960

um

2166

03:41:07,790 --> 03:41:05,520

3D printed things to hold our

2167

03:41:09,769 --> 03:41:07,800

um syringes which is what we used for

2168

03:41:12,410 --> 03:41:09,779

the tasks to collect our liquid samples

2169

03:41:14,389 --> 03:41:12,420

so I actually designed these in CAD

2170

03:41:17,330 --> 03:41:14,399

myself I'm proud of them

2171

03:41:19,429 --> 03:41:17,340

um so there's just little 3D printed

2172

03:41:20,750 --> 03:41:19,439

just to hold the syringes but that was

2173

03:41:21,830 --> 03:41:20,760

really important

2174

03:41:23,870 --> 03:41:21,840

um and we place them under the back

2175

03:41:25,429 --> 03:41:23,880

driver because we really wanted to make

2176

03:41:27,290 --> 03:41:25,439

it so that they could do things while

2177

03:41:29,690 --> 03:41:27,300

we're running the course just to kind of

2178

03:41:32,150 --> 03:41:29,700

cut down a little bit more time

2179

03:41:33,710 --> 03:41:32,160

all right awesome thank you so much for

2180

03:41:35,690 --> 03:41:33,720

sharing your Rover and helping us learn

2181

03:41:37,969 --> 03:41:35,700

a little bit more about it

2182

03:41:39,950 --> 03:41:37,979

um really awesome stuff really creative

2183

03:41:40,790 --> 03:41:39,960

designs here so thank you again and

2184

03:41:42,969 --> 03:41:40,800

we'll send it back to the broadcast

2185

03:41:45,530 --> 03:41:42,979

booth

2186

03:41:47,330 --> 03:41:45,540

thanks Lauren we have some students here

2187

03:41:48,769 --> 03:41:47,340

to talk about their Rover we're super

2188

03:41:57,010 --> 03:41:48,779

excited to have them here can you tell

2189

03:41:57,020 --> 03:42:07,070

and I'm the sponsorships leader

2190

03:42:12,290 --> 03:42:10,010

all right so this is day two of the

2191

03:42:14,870 --> 03:42:12,300

challenge uh talk to us about what

2192

03:42:17,630 --> 03:42:14,880

you're feeling right now well we at

2193

03:42:19,969 --> 03:42:17,640

first we were actually kind of nervous

2194

03:42:22,309 --> 03:42:19,979

period of the team we're well we're

2195

03:42:23,929 --> 03:42:22,319

ready to go we're already rolled and I

2196

03:42:25,190 --> 03:42:23,939

think we're happy we have learned a lot

2197

03:42:27,050 --> 03:42:25,200

of things and we

2198

03:42:29,210 --> 03:42:27,060

and we've been together as a team so

2199

03:42:32,090 --> 03:42:29,220

that's the thing well speaking of spirit

2200

03:42:34,130 --> 03:42:32,100

I heard y'all singing earlier very well

2201

03:42:36,530 --> 03:42:34,140

could you tell us a little bit about uh

2202

03:42:38,290 --> 03:42:36,540

the song you were singing and maybe was

2203

03:42:41,330 --> 03:42:38,300

helping to boost him around

2204

03:42:43,849 --> 03:42:41,340

obviously well we love Mariachi well

2205

03:42:45,769 --> 03:42:43,859

that's something in Mexico very big also

2206

03:42:48,410 --> 03:42:45,779

some Banda so we're playing different

2207

03:42:50,510 --> 03:42:48,420

music generates and we're just yeah

2208

03:42:53,090 --> 03:42:50,520

hanging and having a good time

2209

03:42:55,969 --> 03:42:53,100

and we know that this is a challenge but

2210

03:42:57,170 --> 03:42:55,979

there are other competitors here uh what

2211

03:42:58,790 --> 03:42:57,180

are your thoughts on some of the other

2212

03:43:01,130 --> 03:42:58,800

teams have you had a chance to interact

2213

03:43:02,750 --> 03:43:01,140

with any of them tell us about that yeah

2214

03:43:05,269 --> 03:43:02,760

we've already had the chance to speak

2215

03:43:07,729 --> 03:43:05,279

with uh some Latin American uh teams

2216

03:43:09,590 --> 03:43:07,739

also some American teams so it's been a

2217

03:43:12,590 --> 03:43:09,600

great opportunity to know new things we

2218

03:43:14,809 --> 03:43:12,600

have uh watch new kind of Wheels some

2219

03:43:16,729 --> 03:43:14,819

parts of the river that we can improve

2220

03:43:17,929 --> 03:43:16,739

definitely on ours so it's been a great

2221

03:43:20,090 --> 03:43:17,939

experience

2222

03:43:21,830 --> 03:43:20,100

nice nice well can you just talk a

2223

03:43:24,530 --> 03:43:21,840

little bit about what you've learned

2224

03:43:26,750 --> 03:43:24,540

from yesterday and today like uh what's

2225

03:43:28,729 --> 03:43:26,760

your takeaway from this experience

2226

03:43:30,950 --> 03:43:28,739

I think the biggest takeaway from this

2227

03:43:31,969 --> 03:43:30,960

experience is that

2228

03:43:34,130 --> 03:43:31,979

that bad

2229

03:43:36,710 --> 03:43:34,140

we have we're always ready to learn new

2230

03:43:39,950 --> 03:43:36,720

things and that we don't know everything

2231

03:43:42,469 --> 03:43:39,960

even though we try to we are here to

2232

03:43:44,570 --> 03:43:42,479

learn to keep on going and well with a

2233

03:43:46,729 --> 03:43:44,580

great team our family the family that we

2234

03:43:48,950 --> 03:43:46,739

made that's

2235

03:43:50,929 --> 03:43:48,960

we're here to learn to keep on improving

2236

03:43:53,570 --> 03:43:50,939

for the next year and you mentioned

2237

03:43:55,250 --> 03:43:53,580

family you all have come a long way is

2238

03:43:57,590 --> 03:43:55,260

there anything that you want to say or

2239

03:44:00,410 --> 03:43:57,600

anyone you want to thank uh

2240

03:44:02,630 --> 03:44:00,420

that have this helped get you here well

2241

03:44:04,309 --> 03:44:02,640

obviously uh I speak for myself my

2242

03:44:06,710 --> 03:44:04,319

parents but I think the parents of all

2243

03:44:09,590 --> 03:44:06,720

of us are really proud of us the school

2244

03:44:12,229 --> 03:44:09,600

and always also the

2245

03:44:14,450 --> 03:44:12,239

okay the government that has helped us

2246

03:44:16,389 --> 03:44:14,460

so we're really happy for that we thank

2247

03:44:18,889 --> 03:44:16,399

you so much for answering our questions

2248

03:44:20,210 --> 03:44:18,899

yes and good luck to your team we can't

2249

03:44:21,469 --> 03:44:20,220

wait to see you guys hit the course

2250

03:44:23,389 --> 03:44:21,479

later on today

2251
03:44:24,710 --> 03:44:23,399
uh we are getting ready to have a team

2252
03:44:26,990 --> 03:44:24,720
at the start line they're getting ready

2253
03:44:29,809 --> 03:44:27,000
to go on the course so we are going to

2254
03:44:31,969 --> 03:44:29,819
pass it to our colleague Beth

2255
03:44:33,830 --> 03:44:31,979
thanks so much Alyssa I have Campbell

2256
03:44:35,929 --> 03:44:33,840
University here home of the fighting

2257
03:44:38,210 --> 03:44:35,939
camels you can see that they all have

2258
03:44:40,010 --> 03:44:38,220
fun little mechanical candles here on

2259
03:44:41,389 --> 03:44:40,020
the mechanical engineering people we

2260
03:44:43,610 --> 03:44:41,399
have our Pilots here what is your name

2261
03:44:45,590 --> 03:44:43,620
Greely Hibbard all right and what is

2262
03:44:47,210 --> 03:44:45,600
your name Josh taro all right and

2263
03:44:49,130 --> 03:44:47,220

you're both mechanical engineers working

2264

03:44:50,750 --> 03:44:49,140

on this Rover can you tell me a little

2265

03:44:51,769 --> 03:44:50,760

bit about the offset wheels that you

2266

03:44:55,010 --> 03:44:51,779

have here

2267

03:44:57,710 --> 03:44:55,020

so originally they were aligned but when

2268

03:44:59,570 --> 03:44:57,720

we had to Red redesign our chassis

2269

03:45:02,090 --> 03:44:59,580

um about a week ago we decided to

2270

03:45:03,170 --> 03:45:02,100

shorten uh shrink up the backside to cut

2271

03:45:05,750 --> 03:45:03,180

about

2272

03:45:07,190 --> 03:45:05,760

seven pounds off of it so that's why

2273

03:45:08,990 --> 03:45:07,200

they're offset

2274

03:45:10,610 --> 03:45:09,000

awesome and yesterday you said the

2275

03:45:11,510 --> 03:45:10,620

course went well kind of got a Baseline

2276

03:45:13,729 --> 03:45:11,520

and this time you're going to be

2277

03:45:15,170 --> 03:45:13,739

tackling more tasks is that right yep

2278

03:45:16,910 --> 03:45:15,180

yep we're planning on doing more science

2279

03:45:18,830 --> 03:45:16,920

this time I'm a little more confident

2280

03:45:20,090 --> 03:45:18,840

than we were first run all right you

2281

03:45:21,950 --> 03:45:20,100

guys it's gonna be great we're gonna

2282

03:45:25,550 --> 03:45:21,960

count you off here in a few minutes and

2283

03:45:27,769 --> 03:45:25,560

best of luck to you you so much

2284

03:45:29,150 --> 03:45:27,779

Alyssa

2285

03:45:31,190 --> 03:45:29,160

hi

2286

03:45:33,170 --> 03:45:31,200

we have some students here with us right

2287

03:45:34,790 --> 03:45:33,180

now from Campbell University can you

2288

03:45:37,010 --> 03:45:34,800

tell me your name and your role on the

2289

03:45:38,210 --> 03:45:37,020

team uh

2290

03:45:40,190 --> 03:45:38,220

yeah this year

2291

03:45:41,570 --> 03:45:40,200

and I'm Sam sandefer I'm the previous

2292

03:45:43,849 --> 03:45:41,580

Mission director and one of the

2293

03:45:45,530 --> 03:45:43,859

fabrication leads for this year

2294

03:45:47,690 --> 03:45:45,540

and we're so glad to have you with us

2295

03:45:50,269 --> 03:45:47,700

today talk to us about your strategy

2296

03:45:52,250 --> 03:45:50,279

this is day two uh

2297

03:45:53,510 --> 03:45:52,260

so we're implementing some new wheels on

2298

03:45:55,070 --> 03:45:53,520

this course today and that is going to

2299

03:45:56,510 --> 03:45:55,080

improve our strategy by taking on more

2300

03:45:58,130 --> 03:45:56,520

obstacles those uh taking out more

2301
03:45:59,450 --> 03:45:58,140
obstacles are going to allow us to

2302
03:46:00,769 --> 03:45:59,460
attend more science tasks where a

2303
03:46:01,550 --> 03:46:00,779
majority of points are being held so we

2304
03:46:03,290 --> 03:46:01,560
want to

2305
03:46:04,849 --> 03:46:03,300
for us and see

2306
03:46:06,530 --> 03:46:04,859
and see improve our Point scoring and

2307
03:46:10,250 --> 03:46:06,540
standing overall

2308
03:46:12,950 --> 03:46:10,260
and you participated yesterday what was

2309
03:46:14,630 --> 03:46:12,960
challenging about yesterday well we were

2310
03:46:16,429 --> 03:46:14,640
running on some backup Wheels we had a

2311
03:46:18,229 --> 03:46:16,439
critical failure in one of our uh our

2312
03:46:20,030 --> 03:46:18,239
primary Wheels have been working

2313
03:46:22,190 --> 03:46:20,040

hard on it was a very heartbreaking

2314

03:46:23,570 --> 03:46:22,200

testing day for that but we were able to

2315

03:46:24,889 --> 03:46:23,580

persevere and move through because we

2316

03:46:26,269 --> 03:46:24,899

were just taking on these technical

2317

03:46:28,070 --> 03:46:26,279

risks throughout the year and we knew

2318

03:46:30,349 --> 03:46:28,080

there was some risk to it but we were

2319

03:46:31,370 --> 03:46:30,359

able to circumvent that by adding all

2320

03:46:32,510 --> 03:46:31,380

those previous Wheels you can actually

2321

03:46:33,530 --> 03:46:32,520

see them on our River today they're

2322

03:46:36,530 --> 03:46:33,540

seeing

2323

03:46:37,910 --> 03:46:36,540

use those two backup Wheels but we're

2324

03:46:40,070 --> 03:46:37,920

reintroducing the carbon fiber wheel

2325

03:46:41,870 --> 03:46:40,080

we're very proud of these moving forward

2326

03:46:42,710 --> 03:46:41,880

we've handcrafted the carbon fiber

2327

03:46:43,370 --> 03:46:42,720

Springs that we're going to work really

2328

03:46:45,410 --> 03:46:43,380

well

2329

03:46:47,269 --> 03:46:45,420

we're just gonna see how it turns out

2330

03:46:50,269 --> 03:46:47,279

and what about the team tell us about

2331

03:46:53,389 --> 03:46:50,279

the morale of the team it was it's just

2332

03:46:55,250 --> 03:46:53,399

such a Resurgence after we saw oh man

2333

03:46:56,570 --> 03:46:55,260

our Wheels broke but then we were right

2334

03:47:00,410 --> 03:46:56,580

back to it that morning getting

2335

03:47:04,370 --> 03:47:02,150

yesterday and we're hoping to keep that

2336

03:47:06,769 --> 03:47:04,380

or move forward especially after covid

2337

03:47:08,510 --> 03:47:06,779

we're so happy to be here I've been in

2338

03:47:10,910 --> 03:47:08,520

this team for this is my fourth year now

2339

03:47:12,710 --> 03:47:10,920

this is my first time here and I'm ready

2340

03:47:14,630 --> 03:47:12,720

just to do as good as we possibly can

2341

03:47:16,490 --> 03:47:14,640

and just like try and bring home gold

2342

03:47:18,469 --> 03:47:16,500

but we'll see what we can do

2343

03:47:20,210 --> 03:47:18,479

speaking of that our competition has

2344

03:47:21,830 --> 03:47:20,220

been virtual in the past did you guys

2345

03:47:23,630 --> 03:47:21,840

compete in the virtual

2346

03:47:25,309 --> 03:47:23,640

well last year we actually placed third

2347

03:47:27,349 --> 03:47:25,319

overall

2348

03:47:29,570 --> 03:47:27,359

um I don't remember the other award off

2349

03:47:31,190 --> 03:47:29,580

the top of my head yeah we had a science

2350

03:47:33,050 --> 03:47:31,200

task award as well

2351

03:47:35,330 --> 03:47:33,060

um so hopefully we're gonna get pretty

2352

03:47:37,309 --> 03:47:35,340

close to that again but a Podium finish

2353

03:47:39,469 --> 03:47:37,319

would be amazing we're gonna do the best

2354

03:47:42,050 --> 03:47:39,479

we possibly can

2355

03:47:42,769 --> 03:47:42,060

great we're excited uh to see you on the

2356

03:47:44,630 --> 03:47:42,779

course

2357

03:47:46,610 --> 03:47:44,640

um you talked about this wheel a little

2358

03:47:48,650 --> 03:47:46,620

bit can you go into more depth about the

2359

03:47:50,809 --> 03:47:48,660

design of this oh yeah so these are

2360

03:47:53,389 --> 03:47:50,819

handcrafted carbon fiber Springs we take

2361

03:47:55,550 --> 03:47:53,399

layers of carbon fiber fiberglass mix

2362

03:47:58,190 --> 03:47:55,560

them with epoxy layer them put them in a

2363

03:47:59,630 --> 03:47:58,200

vacuum chamber heat them at a at a

2364

03:48:02,750 --> 03:47:59,640

temperature oven until they get this

2365

03:48:04,550 --> 03:48:02,760

nice form to them we do that about

2366

03:48:06,290 --> 03:48:04,560

our Wheels placed into such a specific

2367

03:48:08,929 --> 03:48:06,300

shave by running several simulations

2368

03:48:11,870 --> 03:48:08,939

hitting just all of it just right and

2369

03:48:14,090 --> 03:48:11,880

then the tread is made of TPU which is

2370

03:48:18,290 --> 03:48:14,100

3D printed so each one of these is made

2371

03:48:23,870 --> 03:48:20,929

we've been printing for a long time

2372

03:48:27,170 --> 03:48:23,880

very nice well what about uh your

2373

03:48:28,429 --> 03:48:27,180

t-shirts I noticed uh very very Vivid

2374

03:48:30,290 --> 03:48:28,439

and bright could you tell us a little

2375

03:48:32,330 --> 03:48:30,300

bit about the design of those or maybe

2376

03:48:34,910 --> 03:48:32,340

the symbolism

2377

03:48:36,650 --> 03:48:34,920

our Campbell University is the fighting

2378

03:48:38,570 --> 03:48:36,660

camels so we wanted to incorporate that

2379

03:48:40,070 --> 03:48:38,580

as large as possible on our t-shirts we

2380

03:48:42,050 --> 03:48:40,080

also want to incorporate the engineering

2381

03:48:43,729 --> 03:48:42,060

aspect so that of course was all the

2382

03:48:47,809 --> 03:48:43,739

mechanical features so we knew we were

2383

03:48:51,590 --> 03:48:50,090

t-shirt this nice custom bright orange

2384

03:48:52,969 --> 03:48:51,600

that sticks out with all the intricate

2385

03:48:54,950 --> 03:48:52,979

details

2386

03:48:56,690 --> 03:48:54,960

on the back we have all of our sponsors

2387

03:48:57,830 --> 03:48:56,700

as well that's right shout out to all

2388

03:49:01,849 --> 03:48:57,840

our sponsors who were able to help us

2389

03:49:07,070 --> 03:49:04,910

one we have a huge line of Rovers

2390

03:49:08,210 --> 03:49:07,080

getting ready lining up here for to get

2391

03:49:11,090 --> 03:49:08,220

to the start line and you can probably

2392

03:49:13,010 --> 03:49:11,100

hear them getting excited so thank you

2393

03:49:14,690 --> 03:49:13,020

so much for joining us we loved hearing

2394

03:49:17,090 --> 03:49:14,700

about this wheel we loved hearing about

2395

03:49:19,070 --> 03:49:17,100

your strategy for today

2396

03:49:20,330 --> 03:49:19,080

um wow we couldn't thank you enough that

2397

03:49:22,309 --> 03:49:20,340

was great

2398

03:49:24,229 --> 03:49:22,319

um so we do actually have a team up at

2399

03:49:26,030 --> 03:49:24,239

the start line right now and so I'm

2400

03:49:28,490 --> 03:49:26,040

gonna go ahead and pass it to our

2401

03:49:30,889 --> 03:49:28,500

colleague Beth

2402

03:49:32,870 --> 03:49:30,899

thanks so much Alyssa I am here we have

2403

03:49:34,010 --> 03:49:32,880

another team at the start line and can

2404

03:49:36,349 --> 03:49:34,020

you tell me your name and what school

2405

03:49:38,870 --> 03:49:36,359

you're from uh I'm Cindy and uh we're

2406

03:49:40,429 --> 03:49:38,880

from Vellore Institute of Technology all

2407

03:49:41,750 --> 03:49:40,439

right fantastic you said yesterday it

2408

03:49:43,130 --> 03:49:41,760

went pretty well and you guys are going

2409

03:49:45,349 --> 03:49:43,140

to be tackling a little bit more today

2410

03:49:46,849 --> 03:49:45,359

is that right right like yesterday I

2411

03:49:48,830 --> 03:49:46,859

just might not difficult to difficulty

2412

03:49:50,630 --> 03:49:48,840

with the wheel and I think we fixed it

2413

03:49:52,190 --> 03:49:50,640

today so I think everything should go

2414

03:49:54,170 --> 03:49:52,200

well all right and we'll talk to our

2415

03:49:56,210 --> 03:49:54,180

co-pilot over here can't really quite

2416

03:49:57,710 --> 03:49:56,220

see your face but what's your name

2417

03:49:59,570 --> 03:49:57,720

um

2418

03:50:01,790 --> 03:49:59,580

all right fantastic and how did you

2419

03:50:02,990 --> 03:50:01,800

train for this uh yeah I've been

2420

03:50:04,790 --> 03:50:03,000

training for the past one and a half

2421

03:50:06,769 --> 03:50:04,800

months you know I'm making I'm making my

2422

03:50:08,210 --> 03:50:06,779

legs strong so I don't get tired by the

2423

03:50:10,250 --> 03:50:08,220

end of the truck yeah we don't want to

2424

03:50:12,530 --> 03:50:10,260

be gassed out so looks like you guys are

2425

03:50:14,570 --> 03:50:12,540

ready to go I wish you the best of luck

2426

03:50:15,349 --> 03:50:14,580

all right thanks so much guys and have a

2427

03:50:18,190 --> 03:50:15,359

good one

2428

03:50:18,200 --> 03:50:22,510

yes

2429

03:50:28,130 --> 03:50:25,610

hello we have uh the team that is about

2430

03:50:30,170 --> 03:50:28,140

to get on the the course is uh with us

2431

03:50:34,990 --> 03:50:30,180

right now can you tell us your name and

2432

03:50:38,870 --> 03:50:38,090

mois and I'm the design lead for this

2433

03:50:41,090 --> 03:50:38,880

team

2434

03:50:43,550 --> 03:50:41,100

uh so yeah

2435

03:50:45,710 --> 03:50:43,560

uh I'm Meenakshi

2436

03:50:49,010 --> 03:50:45,720

um we're I'm also from VIP Chennai

2437

03:50:52,309 --> 03:50:49,020

that's in southern part of India and uh

2438

03:50:54,530 --> 03:50:52,319

yeah we are about a team of 30 and we

2439

03:50:57,349 --> 03:50:54,540

have 16 members here along with our one

2440

03:51:02,150 --> 03:50:57,359

faculty advisor and yeah

2441

03:51:05,510 --> 03:51:02,160

um I am the stem lead uh for the team uh

2442

03:51:09,290 --> 03:51:05,520

maybe to brief on um we have covered

2443

03:51:11,389 --> 03:51:09,300

about 5 000 students on the stem and we

2444

03:51:13,429 --> 03:51:11,399

have covered about a lot of government

2445

03:51:16,370 --> 03:51:13,439

school students like below poverty line

2446

03:51:20,030 --> 03:51:16,380

education and Rural education and

2447

03:51:24,170 --> 03:51:20,040

development yeah so

2448

03:51:25,969 --> 03:51:24,180

to talk about uh maybe some unique

2449

03:51:26,630 --> 03:51:25,979

mechanisms that you used if you would go

2450

03:51:28,250 --> 03:51:26,640

on

2451
03:51:30,050 --> 03:51:28,260
yeah talk about your Rover a little bit

2452
03:51:32,530 --> 03:51:30,060
while you're getting on the course yeah

2453
03:51:35,090 --> 03:51:32,540
it's been real fun designing the Rover

2454
03:51:37,309 --> 03:51:35,100
we had several references from here and

2455
03:51:39,290 --> 03:51:37,319
there from it's a it's from motorcycles

2456
03:51:41,210 --> 03:51:39,300
and even automobiles you take the

2457
03:51:42,889 --> 03:51:41,220
suspension and stuff it's a lot of

2458
03:51:44,330 --> 03:51:42,899
things

2459
03:51:44,929 --> 03:51:44,340
so yeah

2460
03:51:46,969 --> 03:51:44,939
um

2461
03:51:49,070 --> 03:51:46,979
if you look at the course right now you

2462
03:51:51,229 --> 03:51:49,080
see that the

2463
03:51:52,370 --> 03:51:51,239

my question happened or like he designed

2464

03:51:53,990 --> 03:51:52,380

it um

2465

03:51:56,150 --> 03:51:54,000

you know with all the references we had

2466

03:51:58,429 --> 03:51:56,160

before and uh yeah it's been real fun

2467

03:52:03,110 --> 03:51:58,439

yeah the wheels are made up of carbon

2468

03:52:06,650 --> 03:52:03,120

fiber and we've used chromoly 4130 for

2469

03:52:09,349 --> 03:52:06,660

the chases in the frame uh we had a

2470

03:52:11,710 --> 03:52:09,359

change of Design After Orr the

2471

03:52:14,870 --> 03:52:11,720

operational review and the design review

2472

03:52:17,450 --> 03:52:14,880

and uh as we move on

2473

03:52:21,050 --> 03:52:17,460

um yeah we have face back facing like

2474

03:52:23,870 --> 03:52:21,060

the seat Arrangement and yes let's wait

2475

03:52:25,969 --> 03:52:23,880

maybe what do you think has been uh your

2476

03:52:27,590 --> 03:52:25,979

biggest challenge uh since uh since been

2477

03:52:28,790 --> 03:52:27,600

participating this is day two and one of

2478

03:52:32,750 --> 03:52:28,800

you

2479

03:52:35,090 --> 03:52:32,760

uh the backseat challenges maybe the

2480

03:52:36,889 --> 03:52:35,100

organizing the team uh We've after

2481

03:52:39,170 --> 03:52:36,899

speaking to a lot of teams we've got to

2482

03:52:42,050 --> 03:52:39,180

know there's a different committees for

2483

03:52:44,990 --> 03:52:42,060

uh sponsorship and or other departments

2484

03:52:47,690 --> 03:52:45,000

except the technical department but here

2485

03:52:51,290 --> 03:52:47,700

we everybody worked in every department

2486

03:52:52,969 --> 03:52:51,300

and which had a difficulty in piling up

2487

03:52:56,510 --> 03:52:52,979

the work and completing it you know

2488

03:52:58,969 --> 03:52:56,520

where a short duration of time and on

2489

03:53:01,490 --> 03:52:58,979

the field uh it was a very good and fun

2490

03:53:04,729 --> 03:53:01,500

experience for the pilots to ride over

2491

03:53:07,910 --> 03:53:04,739

the course yesterday and I think they're

2492

03:53:10,250 --> 03:53:07,920

pretty smooth over here now and they're

2493

03:53:12,950 --> 03:53:10,260

able to move because they had a very

2494

03:53:16,190 --> 03:53:12,960

good experience yesterday and yeah we

2495

03:53:18,170 --> 03:53:16,200

are right here the course it looks like

2496

03:53:19,969 --> 03:53:18,180

your team has bypassed that incline can

2497

03:53:21,830 --> 03:53:19,979

you

2498

03:53:22,790 --> 03:53:21,840

tackle them

2499

03:53:25,849 --> 03:53:22,800

today

2500

03:53:27,710 --> 03:53:25,859

um we are focusing more on the task task

2501
03:53:30,830 --> 03:53:27,720
tool completion because that has more

2502
03:53:32,929 --> 03:53:30,840
points and if we do that we can have a

2503
03:53:36,349 --> 03:53:32,939
really good

2504
03:53:40,250 --> 03:53:36,359
list so that's it there and uh yeah

2505
03:53:42,769 --> 03:53:40,260
yeah also uh based on the Pilot's

2506
03:53:44,570 --> 03:53:42,779
capacity of exerting force and the speed

2507
03:53:46,849 --> 03:53:44,580
along with the Rover which we have

2508
03:53:49,309 --> 03:53:46,859
designed we have skipped some obstacles

2509
03:53:51,830 --> 03:53:49,319
but try to attempt at the tasks embedded

2510
03:53:54,050 --> 03:53:51,840
within the obstacle so that as he said

2511
03:53:56,570 --> 03:53:54,060
we have designed a multi-function task

2512
03:53:59,330 --> 03:53:56,580
tool which has a lot of capabilities on

2513
03:54:02,210 --> 03:53:59,340

a whole and yes and we have also trained

2514

03:54:04,849 --> 03:54:02,220

the drivers on how to operate it

2515

03:54:07,370 --> 03:54:04,859

so that we can complete the tasks in the

2516

03:54:09,229 --> 03:54:07,380

given time and score more we appreciate

2517

03:54:12,290 --> 03:54:09,239

you talking with us and we wish you and

2518

03:54:14,570 --> 03:54:12,300

your team uh the best of luck yes why

2519

03:54:18,110 --> 03:54:16,309

want to go see how they're doing so

2520

03:54:20,510 --> 03:54:18,120

thank you so much for joining us here in

2521

03:54:21,950 --> 03:54:20,520

the booth yeah so it looks like we do

2522

03:54:23,750 --> 03:54:21,960

have another team ready at the start

2523

03:54:26,570 --> 03:54:23,760

line we are going through these teams

2524

03:54:28,189 --> 03:54:26,580

like crazy this afternoon we have so

2525

03:54:31,490 --> 03:54:28,199

many lined up so many exciting things

2526

03:54:34,670 --> 03:54:32,809

a challenge

2527

03:54:36,590 --> 03:54:34,680

go ahead and pass it to our colleague

2528

03:54:38,389 --> 03:54:36,600

Beth

2529

03:54:40,630 --> 03:54:38,399

thanks so much I'm here with the Rover

2530

03:54:44,809 --> 03:54:40,640

dogs

2531

03:54:47,030 --> 03:54:44,819

okay yeah thanks all right what school

2532

03:54:48,710 --> 03:54:47,040

are you from uh we are from Southwestern

2533

03:54:50,570 --> 03:54:48,720

Oklahoma State University in Weatherford

2534

03:54:53,210 --> 03:54:50,580

Oklahoma all right fantastic and what's

2535

03:54:54,950 --> 03:54:53,220

your name my name is Jan Ortiz what are

2536

03:54:57,590 --> 03:54:54,960

you studying so I am manufacturing

2537

03:54:59,090 --> 03:54:57,600

engineering technology uh we just do

2538

03:55:01,070 --> 03:54:59,100

engineering stuff we build parts that

2539

03:55:03,050 --> 03:55:01,080

make parts and that that really came in

2540

03:55:04,790 --> 03:55:03,060

handy yesterday because you guys had a

2541

03:55:06,889 --> 03:55:04,800

problem with your will still made it

2542

03:55:08,630 --> 03:55:06,899

under under eight minutes and uh what

2543

03:55:10,250 --> 03:55:08,640

did you guys do to fix that yesterday so

2544

03:55:12,110 --> 03:55:10,260

our drive shaft actually broke off

2545

03:55:14,630 --> 03:55:12,120

before we started so we had to get it on

2546

03:55:15,769 --> 03:55:14,640

really tight in there and then uh once

2547

03:55:17,450 --> 03:55:15,779

we were putting through it broke off

2548

03:55:19,010 --> 03:55:17,460

again and we had no time to fix it at

2549

03:55:20,510 --> 03:55:19,020

that point so we had to pick it up and

2550

03:55:23,030 --> 03:55:20,520

finish under eight minutes so we pushed

2551
03:55:24,769 --> 03:55:23,040
it but once we got back to the pit we uh

2552
03:55:26,269 --> 03:55:24,779
we welded this part right here we make

2553
03:55:28,550 --> 03:55:26,279
sure that it was nice and tight whenever

2554
03:55:30,229 --> 03:55:28,560
we put it back on and hopefully now if

2555
03:55:34,070 --> 03:55:30,239
it breaks off I have my tools for me to

2556
03:55:36,290 --> 03:55:34,080
fix it so fantastic and uh communication

2557
03:55:37,790 --> 03:55:36,300
is so important is that one of the

2558
03:55:39,110 --> 03:55:37,800
reasons is that you guys are just kind

2559
03:55:41,630 --> 03:55:39,120
of back to back so you can be able to

2560
03:55:43,130 --> 03:55:41,640
hear each other better yes ma'am I think

2561
03:55:44,630 --> 03:55:43,140
that it's going to work really well me

2562
03:55:46,309 --> 03:55:44,640
and him communicate pretty good and

2563
03:55:48,530 --> 03:55:46,319

we're both pretty loud

2564

03:55:51,170 --> 03:55:48,540

I love it well let's get loud for you

2565

03:55:52,849 --> 03:55:51,180

guys let's do the best you can I'm gonna

2566

03:55:55,490 --> 03:55:52,859

see you at the Finish Line all right yes

2567

03:55:58,849 --> 03:55:55,500

ma'am thank you so much thanks so much

2568

03:56:01,790 --> 03:55:58,859

back to you Melissa hello we are back in

2569

03:56:03,530 --> 03:56:01,800

the broadcast Booth with another team

2570

03:56:05,330 --> 03:56:03,540

um all these students are super excited

2571

03:56:08,150 --> 03:56:05,340

to be here can you tell me your names

2572

03:56:10,849 --> 03:56:08,160

and um what your role in the team is

2573

03:56:14,929 --> 03:56:10,859

okay hello this is

2574

03:56:16,729 --> 03:56:14,939

advisor uh this is Nicolas he can't

2575

03:56:19,250 --> 03:56:16,739

release on anything but he's coming to

2576

03:56:21,290 --> 03:56:19,260

carry it meets I know I was

2577

03:56:23,210 --> 03:56:21,300

thank you oh we're so excited to have

2578

03:56:25,070 --> 03:56:23,220

you all here Lance you have any

2579

03:56:26,990 --> 03:56:25,080

questions for them oh most definitely

2580

03:56:31,429 --> 03:56:27,000

most definitely can y'all tell us about

2581

03:56:35,090 --> 03:56:31,439

uh your Rover okay our Rover is made

2582

03:56:37,370 --> 03:56:35,100

with all men and 70 on 75 sold the

2583

03:56:39,550 --> 03:56:37,380

wheels we use some material it's called

2584

03:56:43,309 --> 03:56:39,560

P PBR

2585

03:56:45,650 --> 03:56:43,319

yes PBR and the transmission we use

2586

03:56:46,750 --> 03:56:45,660

opinions to the transmission also we

2587

03:56:49,790 --> 03:56:46,760

have to

2588

03:56:52,610 --> 03:56:49,800

put our Rover according to the people

2589

03:56:55,610 --> 03:56:52,620

with hitting apartment for example we

2590

03:56:58,250 --> 03:56:55,620

put mirrors in inside because he

2591

03:57:00,650 --> 03:56:58,260

communicated in that way when they pilot

2592

03:57:02,330 --> 03:57:00,660

in front

2593

03:57:04,550 --> 03:57:02,340

and what are some of the challenges that

2594

03:57:05,750 --> 03:57:04,560

you've faced um with having to do

2595

03:57:10,250 --> 03:57:05,760

something like that

2596

03:57:12,050 --> 03:57:10,260

okay so our team is composed by 26

2597

03:57:15,769 --> 03:57:12,060

people

2598

03:57:19,010 --> 03:57:15,779

after only 20 of them came here because

2599

03:57:22,010 --> 03:57:19,020

their Visa Visa appointment what's

2600

03:57:25,370 --> 03:57:22,020

postponing so we see it's representing

2601
03:57:27,830 --> 03:57:25,380
here and to us it's so important that we

2602
03:57:30,650 --> 03:57:27,840
can have a person with hearing apartment

2603
03:57:33,170 --> 03:57:30,660
because they have the opportunity to

2604
03:57:36,410 --> 03:57:33,180
participate in this kind of event

2605
03:57:40,010 --> 03:57:36,420
International and important events so

2606
03:57:44,030 --> 03:57:40,020
that's our proposed to and can you tell

2607
03:57:50,090 --> 03:57:48,170
uh for example our pilot and he is the

2608
03:57:54,110 --> 03:57:50,100
second one and the first one is here

2609
03:57:57,710 --> 03:57:54,120
Saul and she she communicate with him

2610
03:57:59,990 --> 03:57:57,720
with the mirrors and she tried to pay

2611
03:58:01,969 --> 03:58:00,000
attention to God and there is a way to

2612
03:58:03,590 --> 03:58:01,979
communicate them and I'd like to know

2613
03:58:04,729 --> 03:58:03,600

what your words of encouragement are for

2614

03:58:20,330 --> 03:58:04,739

anyone who's dealing with other

2615

03:58:32,929 --> 03:58:22,040

communication

2616

03:58:32,939 --> 03:58:44,809

is

2617

03:58:48,229 --> 03:58:46,849

so he said to me it's really easy

2618

03:58:51,650 --> 03:58:48,239

because I have a really good

2619

03:58:53,689 --> 03:58:51,660

communication with my partner so I try

2620

03:58:55,610 --> 03:58:53,699

to pay attention all of the time to the

2621

03:58:57,050 --> 03:58:55,620

murals but it's really good because I

2622

03:59:00,170 --> 03:58:57,060

have really good connection with my

2623

03:59:03,349 --> 03:59:02,150

great we can't wait to see you guys on

2624

03:59:08,520 --> 03:59:03,359

the course is there anyone you want to

2625

03:59:08,530 --> 03:59:30,889

[Music]

2626

03:59:38,510 --> 03:59:35,349

okay he say that he wants to send

2627

03:59:40,550 --> 03:59:38,520

people here that the most important is

2628

03:59:43,189 --> 03:59:40,560

that the

2629

03:59:45,410 --> 03:59:43,199

hip has the has the opportunity to be

2630

03:59:48,469 --> 03:59:45,420

here with all the people and

2631

03:59:51,110 --> 03:59:48,479

participants in this guide on events and

2632

03:59:54,590 --> 03:59:51,120

they have all of the all of the

2633

03:59:56,750 --> 03:59:54,600

abilities and to do it absolutely we

2634

03:59:58,189 --> 03:59:56,760

couldn't agree more it's so wonderful to

2635

04:00:00,530 --> 03:59:58,199

have you here we can't thank you enough

2636

04:00:03,349 --> 04:00:00,540

we want you to go cheer on your team get

2637

04:00:05,210 --> 04:00:03,359

ready to watch them on the course and we

2638

04:00:06,830 --> 04:00:05,220

are gonna watch some of that coverage

2639

04:00:18,530 --> 04:00:06,840

right now so we'll be back here in just

2640

04:00:18,540 --> 04:01:12,110

thank you

2641

04:01:12,120 --> 04:02:17,950

foreign

2642

04:02:17,960 --> 04:04:56,689

come on

2643

04:04:56,699 --> 04:06:08,150

thank you

2644

04:06:08,160 --> 04:06:15,530

goodness

2645

04:06:15,540 --> 04:08:00,820

foreign

2646

04:08:00,830 --> 04:08:21,889

[Applause]

2647

04:08:21,899 --> 04:08:32,690

thank you

2648

04:08:32,700 --> 04:08:36,650

[Applause]

2649

04:08:41,030 --> 04:08:38,330

and thank you for joining us here at the

2650

04:08:44,030 --> 04:08:41,040

2023 human exploration Rover challenge

2651
04:08:46,010 --> 04:08:44,040
we have a team here uh their students

2652
04:08:47,330 --> 04:08:46,020
are here and family and members are here

2653
04:08:48,950 --> 04:08:47,340
so we're going to ask you what's your

2654
04:08:52,070 --> 04:08:48,960
name and what was your role in the team

2655
04:08:54,170 --> 04:08:52,080
hi my name is Gupta and I'm the team

2656
04:08:56,210 --> 04:08:54,180
captain

2657
04:08:57,590 --> 04:08:56,220
hi I'm abhishi and I'm the social media

2658
04:08:59,450 --> 04:08:57,600
and marketing lead and I'm also the

2659
04:09:01,790 --> 04:08:59,460
female Rover driver

2660
04:09:04,130 --> 04:09:01,800
hi I'm rishabhasin and I'm the student

2661
04:09:05,929 --> 04:09:04,140
safety officer and what school are we

2662
04:09:10,550 --> 04:09:05,939
you guys win we are from shivnada

2663
04:09:12,950 --> 04:09:10,560

Institute of eminence from India

2664

04:09:15,889 --> 04:09:12,960

all right and we understand that your

2665

04:09:18,349 --> 04:09:15,899

Rover did not make it with you but yet

2666

04:09:21,650 --> 04:09:18,359

we're glad to have you here and we want

2667

04:09:23,990 --> 04:09:21,660

to know uh what happened behind the

2668

04:09:25,610 --> 04:09:24,000

scenes you know like how did you tell us

2669

04:09:27,969 --> 04:09:25,620

a little bit about your Rover and how

2670

04:09:31,250 --> 04:09:27,979

you put it together the process

2671

04:09:33,889 --> 04:09:31,260

so we we have been preparing for this

2672

04:09:36,229 --> 04:09:33,899

challenge for over eight months now and

2673

04:09:38,630 --> 04:09:36,239

we have worked very hard so for our

2674

04:09:41,150 --> 04:09:38,640

drive train we use Devil Girls instead

2675

04:09:43,130 --> 04:09:41,160

of the traditional belt drives drive

2676

04:09:46,309 --> 04:09:43,140

train on the chain drive systems you

2677

04:09:49,309 --> 04:09:46,319

must be seeing here and we had made uh

2678

04:09:54,610 --> 04:09:49,319

one of the lightest Rover you know you

2679

04:10:01,250 --> 04:09:58,729

would made it we could have you know won

2680

04:10:04,670 --> 04:10:03,710

well tell us a little bit about uh one

2681

04:10:07,550 --> 04:10:04,680

of the

2682

04:10:09,410 --> 04:10:07,560

parts of this competition is uh social

2683

04:10:12,170 --> 04:10:09,420

media presence and you said you're the

2684

04:10:13,309 --> 04:10:12,180

marketing and comms Guru would you tell

2685

04:10:16,070 --> 04:10:13,319

us a little bit about some of the things

2686

04:10:18,530 --> 04:10:16,080

y'all did uh to promote your team and

2687

04:10:20,090 --> 04:10:18,540

your uh Rover uh We've mainly conducted

2688

04:10:22,610 --> 04:10:20,100

a lot of stem activities for the

2689

04:10:25,490 --> 04:10:22,620

underprivileged kids in our country we

2690

04:10:27,170 --> 04:10:25,500

had um we got great help from the

2691

04:10:31,010 --> 04:10:27,180

shiksha foundation which comes under the

2692

04:10:32,630 --> 04:10:31,020

Ezio and yes we I also looked after the

2693

04:10:34,910 --> 04:10:32,640

Instagram and LinkedIn

2694

04:10:38,210 --> 04:10:34,920

so we have been uh you know conducting

2695

04:10:40,670 --> 04:10:38,220

social quizzes on Instagram stories and

2696

04:10:43,550 --> 04:10:40,680

we've been interacting with

2697

04:10:46,130 --> 04:10:43,560

followers of our page to underprivileged

2698

04:10:48,050 --> 04:10:46,140

students also 100 students came to our

2699

04:10:50,090 --> 04:10:48,060

campus to witness the Rover in action

2700

04:10:52,130 --> 04:10:50,100

and they actually sat on the Roar and

2701

04:10:55,130 --> 04:10:52,140

drove it around on the track that was

2702

04:10:57,110 --> 04:10:55,140

created by the university so we the

2703

04:10:59,210 --> 04:10:57,120

exposure to these high school and middle

2704

04:11:01,370 --> 04:10:59,220

school children was amazing you know and

2705

04:11:02,689 --> 04:11:01,380

it inspires them to come forward in the

2706

04:11:04,189 --> 04:11:02,699

next couple of years to come here in

2707

04:11:06,769 --> 04:11:04,199

Parts within us and we have some school

2708

04:11:08,689 --> 04:11:06,779

students from school also here we had

2709

04:11:10,070 --> 04:11:08,699

the school students from vidyakan which

2710

04:11:11,750 --> 04:11:10,080

is one of our you know Sister

2711

04:11:13,790 --> 04:11:11,760

foundations of the shivrata foundation

2712

04:11:17,090 --> 04:11:13,800

and of course we got great support from

2713

04:11:19,670 --> 04:11:17,100

the HCL Tech USA and HCL India shivner

2714

04:11:22,250 --> 04:11:19,680

Foundation Foundation who have supported

2715

04:11:24,229 --> 04:11:22,260

our students majorly in um all the

2716

04:11:26,090 --> 04:11:24,239

participation right here and would you

2717

04:11:29,570 --> 04:11:26,100

tell us who you are okay

2718

04:11:31,309 --> 04:11:29,580

I'm the team advisor for the robot

2719

04:11:33,050 --> 04:11:31,319

answer key team as well as the shivner

2720

04:11:34,849 --> 04:11:33,060

institution of eminence I had external

2721

04:11:36,530 --> 04:11:34,859

relations for the vice Chancellor's

2722

04:11:38,090 --> 04:11:36,540

office and I'm so happy to hear come

2723

04:11:39,769 --> 04:11:38,100

here the second time the last time I

2724

04:11:43,309 --> 04:11:39,779

came was in 2015 with my earlier

2725

04:11:44,929 --> 04:11:43,319

students yes well we thank you so much

2726
04:11:46,550 --> 04:11:44,939
for joining us we're so sorry that your

2727
04:11:48,110 --> 04:11:46,560
Rover didn't make it but regardless I'm

2728
04:11:50,510 --> 04:11:48,120
sure you guys are learning so much being

2729
04:11:52,490 --> 04:11:50,520
here at this competition this year thank

2730
04:11:55,429 --> 04:11:52,500
you all so much I see that you have your

2731
04:11:57,410 --> 04:11:55,439
team spirit here and your morale is

2732
04:11:58,849 --> 04:11:57,420
amazing thank you for joining us in the

2733
04:12:00,410 --> 04:11:58,859
broadcast Booth

2734
04:12:03,590 --> 04:12:00,420
um good luck to you guys I hope you guys

2735
04:12:05,450 --> 04:12:03,600
come back next year absolutely

2736
04:12:07,010 --> 04:12:05,460
so we actually do have a team waiting at

2737
04:12:08,750 --> 04:12:07,020
the start line that we are going to toss

2738
04:12:10,550 --> 04:12:08,760

to now so we are going to our colleague

2739

04:12:12,650 --> 04:12:10,560

Beth

2740

04:12:13,969 --> 04:12:12,660

thanks so much Alyssa and Lance I am

2741

04:12:16,910 --> 04:12:13,979

here with one of the Ricky high school

2742

04:12:18,070 --> 04:12:16,920

teams McKinley High and uh tell me a

2743

04:12:20,929 --> 04:12:18,080

little bit about your troubles yesterday

2744

04:12:22,969 --> 04:12:20,939

Okay so yesterday our welding actually

2745

04:12:24,650 --> 04:12:22,979

broke halfway through the course so our

2746

04:12:27,530 --> 04:12:24,660

whole world came off so we actually had

2747

04:12:29,450 --> 04:12:27,540

to push our Rover to the Finish Line all

2748

04:12:31,610 --> 04:12:29,460

right and how did you overcome that last

2749

04:12:33,469 --> 04:12:31,620

night well this morning we actually got

2750

04:12:36,349 --> 04:12:33,479

up really early and we came and we got

2751

04:12:37,610 --> 04:12:36,359

our wheel welded back on so it's fine

2752

04:12:40,070 --> 04:12:37,620

now so we should do just fine on the

2753

04:12:42,170 --> 04:12:40,080

course today fantastic and uh what grade

2754

04:12:45,050 --> 04:12:42,180

are you in high school I'm in the 12th

2755

04:12:47,030 --> 04:12:45,060

grade in your name Angel Angel Brodus

2756

04:12:49,130 --> 04:12:47,040

all right angel thank you so much for

2757

04:12:52,010 --> 04:12:49,140

being here and what is your name sir uh

2758

04:12:53,689 --> 04:12:52,020

Jamal Mohamed all right Jamal uh what is

2759

04:12:56,090 --> 04:12:53,699

your favorite subject in school so my

2760

04:12:58,070 --> 04:12:56,100

favorite subject is engineer I plan on

2761

04:13:01,790 --> 04:12:58,080

being an engineer or to go in more

2762

04:13:04,130 --> 04:13:01,800

specifics maybe math I like math a lot

2763

04:13:05,510 --> 04:13:04,140

that's awesome so you guys trained a lot

2764

04:13:07,610 --> 04:13:05,520

for this I know you swapped up your

2765

04:13:09,290 --> 04:13:07,620

wheel design from earlier but I

2766

04:13:10,910 --> 04:13:09,300

appreciate you guys being here let's

2767

04:13:13,010 --> 04:13:10,920

let's hit it on the course right all

2768

04:13:21,590 --> 04:13:13,020

right yes all right thanks guys so much

2769

04:13:21,600 --> 04:13:30,530

okay guys

2770

04:13:30,540 --> 04:13:34,130

race

2771

04:13:34,140 --> 04:18:40,130

two three get ready Set Go

2772

04:18:46,010 --> 04:18:43,309

all right welcome back to the 2023 human

2773

04:18:47,570 --> 04:18:46,020

exploration Rover challenge uh like

2774

04:18:49,729 --> 04:18:47,580

commentary that we're doing here right

2775

04:18:52,010 --> 04:18:49,739

now we are doing student interviews

2776

04:18:53,689 --> 04:18:52,020

we're doing behind the scenes look um

2777

04:18:56,330 --> 04:18:53,699

but I'm Melissa Lee with NASA's Marshall

2778

04:18:58,670 --> 04:18:56,340

space flight center and I'm Lance Davis

2779

04:19:00,349 --> 04:18:58,680

and I'm with Marshall as well yeah yeah

2780

04:19:02,330 --> 04:19:00,359

so we're here watching these Rovers

2781

04:19:04,790 --> 04:19:02,340

we've had several amazing Rovers go

2782

04:19:06,410 --> 04:19:04,800

today some have had a little a little

2783

04:19:08,750 --> 04:19:06,420

trouble on the course we've seen but we

2784

04:19:10,729 --> 04:19:08,760

have so many coming up next um if you

2785

04:19:12,889 --> 04:19:10,739

could see the line just of Rovers coming

2786

04:19:14,809 --> 04:19:12,899

up and it looks amazing we're so excited

2787

04:19:17,330 --> 04:19:14,819

to be here I do want to remind everyone

2788

04:19:19,250 --> 04:19:17,340

that we are on social media you can

2789

04:19:20,750 --> 04:19:19,260

follow us on Facebook and Twitter to get

2790

04:19:21,950 --> 04:19:20,760

updates throughout the day we'll be

2791

04:19:23,450 --> 04:19:21,960

posting

2792

04:19:24,769 --> 04:19:23,460

um also follow us on NASA Marshall's

2793

04:19:26,570 --> 04:19:24,779

space flights and our social media

2794

04:19:28,250 --> 04:19:26,580

channels we're we're miles away from

2795

04:19:30,650 --> 04:19:28,260

Marshall right now we're doing a lot of

2796

04:19:32,630 --> 04:19:30,660

great work there but definitely check

2797

04:19:34,910 --> 04:19:32,640

out that social media use the hashtag

2798

04:19:36,950 --> 04:19:34,920

NASA herc to join in on the conversation

2799

04:19:38,389 --> 04:19:36,960

get engaged with others around the world

2800

04:19:41,030 --> 04:19:38,399

who are watching the competition with

2801
04:19:42,530 --> 04:19:41,040
you and Lance speaking of social media

2802
04:19:44,090 --> 04:19:42,540
you know we we've talked about the

2803
04:19:45,830 --> 04:19:44,100
people watching online but we've got a

2804
04:19:48,290 --> 04:19:45,840
ton of people here that just love this

2805
04:19:50,809 --> 04:19:48,300
competition love what we do yes yes we

2806
04:19:52,550 --> 04:19:50,819
have so many uh sponsors and supporters

2807
04:19:55,130 --> 04:19:52,560
and we just want to take this time out

2808
04:19:56,889 --> 04:19:55,140
to tell them thank you their support is

2809
04:20:00,469 --> 04:19:56,899
vital to this event

2810
04:20:02,450 --> 04:20:00,479
to promote stem education yes yeah they

2811
04:20:04,309 --> 04:20:02,460
promote our stem education and they're

2812
04:20:06,229 --> 04:20:04,319
really inspiring this Artemis generation

2813
04:20:08,510 --> 04:20:06,239

we have here these students building

2814

04:20:12,170 --> 04:20:08,520

these rovers are the Artemis generation

2815

04:20:14,870 --> 04:20:12,180

the Artemis missions are are right at

2816

04:20:17,210 --> 04:20:14,880

the peak I really want to say we had a

2817

04:20:19,490 --> 04:20:17,220

successful Artemis one launch back in

2818

04:20:21,830 --> 04:20:19,500

November yes and now we're gearing up to

2819

04:20:24,170 --> 04:20:21,840

extra Artemis 2. we just announced the

2820

04:20:25,910 --> 04:20:24,180

crew of Artemis 2. can you talk a little

2821

04:20:28,070 --> 04:20:25,920

bit more about those missions what what

2822

04:20:31,309 --> 04:20:28,080

the goal is there well you know the goal

2823

04:20:32,990 --> 04:20:31,319

is to bring Humanity back to the Moon uh

2824

04:20:35,090 --> 04:20:33,000

and we're sending the first woman and

2825

04:20:37,550 --> 04:20:35,100

first person of color and first Canadian

2826
04:20:39,469 --> 04:20:37,560
to the moon and eventually we will go to

2827
04:20:41,929 --> 04:20:39,479
Mars the first Canadian is going on

2828
04:20:43,790 --> 04:20:41,939
Artemis 2 around the moon so we're

2829
04:20:45,170 --> 04:20:43,800
excited to see that

2830
04:20:47,269 --> 04:20:45,180
um you know we're going to the South

2831
04:20:49,309 --> 04:20:47,279
Pole of the moon this is an Undiscovered

2832
04:20:51,110 --> 04:20:49,319
uh we've never researched that area

2833
04:20:52,849 --> 04:20:51,120
before not through Apollo so we're

2834
04:20:55,250 --> 04:20:52,859
excited to get there learn more about

2835
04:20:57,530 --> 04:20:55,260
lunar ice that's a huge thing that we're

2836
04:20:59,510 --> 04:20:57,540
we're wanting to research to really get

2837
04:21:01,370 --> 04:20:59,520
a sustainable human presence on the moon

2838
04:21:03,170 --> 04:21:01,380

and where are we going from there we're

2839

04:21:04,849 --> 04:21:03,180

going to Mars that's right we're going

2840

04:21:06,469 --> 04:21:04,859

to Mars we're going to launch we're

2841

04:21:09,590 --> 04:21:06,479

gonna land we're going to live and we're

2842

04:21:10,849 --> 04:21:09,600

going to learn that's right so we are

2843

04:21:12,769 --> 04:21:10,859

super excited for the Artemis generation

2844

04:21:15,170 --> 04:21:12,779

these students that are here today are

2845

04:21:18,469 --> 04:21:15,180

excited for this Artemis generation this

2846

04:21:20,630 --> 04:21:18,479

Artemis era of space exploration

2847

04:21:22,610 --> 04:21:20,640

um these Rovers that they're testing

2848

04:21:24,950 --> 04:21:22,620

today on this course this course

2849

04:21:27,349 --> 04:21:24,960

simulates you know a lunar terrain it

2850

04:21:29,630 --> 04:21:27,359

simulates a martian terrain other solar

2851
04:21:31,849 --> 04:21:29,640
bodies so they're excited to test these

2852
04:21:34,189 --> 04:21:31,859
Rovers on this course uh we're getting

2853
04:21:36,469 --> 04:21:34,199
ready to see some Rovers uh soon here

2854
04:21:40,550 --> 04:21:36,479
yeah and those Rovers uh they actually

2855
04:21:48,950 --> 04:21:40,560
replicate a pale rocket besides inside

2856
04:21:52,910 --> 04:21:50,750
um you'll see some teams

2857
04:21:54,769 --> 04:21:52,920
gearing uh talking about the Rovers

2858
04:21:56,929 --> 04:21:54,779
being lightweight so that's another

2859
04:21:58,790 --> 04:21:56,939
thing that's one of the categories uh in

2860
04:22:00,830 --> 04:21:58,800
the competition yeah an award they can

2861
04:22:02,570 --> 04:22:00,840
win yeah yes absolutely so we have a

2862
04:22:03,410 --> 04:22:02,580
team ready to talk at the start line

2863
04:22:05,030 --> 04:22:03,420

they're going to talk more about their

2864

04:22:06,710 --> 04:22:05,040

Rover what they're getting ready to do

2865

04:22:09,950 --> 04:22:06,720

on the course so we're going to pass it

2866

04:22:14,630 --> 04:22:12,170

thanks so much Lance and Alyssa I am

2867

04:22:17,090 --> 04:22:14,640

here with Trine University I have both

2868

04:22:20,210 --> 04:22:17,100

design technology engineers here this is

2869

04:22:22,309 --> 04:22:20,220

their senior project they are really in

2870

04:22:23,689 --> 04:22:22,319

you know things don't always go to plan

2871

04:22:25,429 --> 04:22:23,699

but they are learning from their

2872

04:22:26,990 --> 04:22:25,439

failures maybe not failures just

2873

04:22:28,790 --> 04:22:27,000

learning some lessons yesterday right

2874

04:22:31,550 --> 04:22:28,800

right exactly

2875

04:22:33,229 --> 04:22:31,560

and tell me a little bit about uh what

2876

04:22:34,610 --> 04:22:33,239

you did to fix some of the things to

2877

04:22:36,830 --> 04:22:34,620

make it better for today

2878

04:22:39,590 --> 04:22:36,840

so we reinforce our pedal assemblies and

2879

04:22:41,570 --> 04:22:39,600

we also made our uh belt a lot tighter

2880

04:22:43,849 --> 04:22:41,580

to avoid slipping all right thank you so

2881

04:22:45,290 --> 04:22:43,859

much what's your name Emma all right

2882

04:22:48,889 --> 04:22:45,300

Emma and what did you guys do to train

2883

04:22:50,510 --> 04:22:48,899

for this so we actually had done quite a

2884

04:22:52,610 --> 04:22:50,520

bit of biking and then Ernesto actually

2885

04:22:54,590 --> 04:22:52,620

goes to the gym every day so he's done a

2886

04:22:56,450 --> 04:22:54,600

lot of work to put towards this

2887

04:22:58,729 --> 04:22:56,460

any fun playlists that you had to listen

2888

04:23:00,969 --> 04:22:58,739

to when you were biking or hiking uh

2889

04:23:03,830 --> 04:23:00,979

yeah your usual rap gets me going

2890

04:23:05,269 --> 04:23:03,840

obviously absolutely all right well I

2891

04:23:07,490 --> 04:23:05,279

wish you guys the best of luck trying

2892

04:23:10,309 --> 04:23:07,500

University do you guys have a motto or a

2893

04:23:12,650 --> 04:23:10,319

go mascot or whatever

2894

04:23:14,330 --> 04:23:12,660

go ahead we are thunderous all right

2895

04:23:16,130 --> 04:23:14,340

let's Thunder it up all right thanks so

2896

04:23:18,229 --> 04:23:16,140

much guys we'll get you on the course

2897

04:23:21,290 --> 04:23:18,239

Alyssa

2898

04:23:22,849 --> 04:23:21,300

thank you Beth we have the team here uh

2899

04:23:24,410 --> 04:23:22,859

your your Rover's about to get on the

2900

04:23:26,030 --> 04:23:24,420

course uh can you tell me your name and

2901
04:23:27,710 --> 04:23:26,040
what was your role in the team uh yeah

2902
04:23:28,670 --> 04:23:27,720
my name is Austin Hensley and I was the

2903
04:23:30,650 --> 04:23:28,680
team lead

2904
04:23:33,170 --> 04:23:30,660
my name is Jacob Clark and I was the

2905
04:23:35,929 --> 04:23:33,180
team lead fabricator

2906
04:23:37,849 --> 04:23:35,939
all right so talk to us about the

2907
04:23:42,229 --> 04:23:37,859
strategy that your team is using today

2908
04:23:46,610 --> 04:23:42,239
yes so we uh we know that

2909
04:23:48,830 --> 04:23:46,620
top five we need about 15 points so we

2910
04:23:51,710 --> 04:23:48,840
are gonna hit the first uh first

2911
04:23:55,090 --> 04:23:51,720
obstacle and the first task and then

2912
04:23:57,950 --> 04:23:55,100
kind of make our way around the course

2913
04:23:59,809 --> 04:23:57,960

just to make sure we get the under eight

2914

04:24:02,330 --> 04:23:59,819
minutes

2915

04:24:04,490 --> 04:24:02,340
and uh this is day two so would you tell

2916

04:24:06,410 --> 04:24:04,500
us uh what are some of the challenges

2917

04:24:08,570 --> 04:24:06,420
that you experienced yesterday and what

2918

04:24:12,110 --> 04:24:08,580
you're hoping to do differently uh to

2919

04:24:15,229 --> 04:24:12,120
overcome those challenges yeah so uh our

2920

04:24:16,030 --> 04:24:15,239
big issue yesterday was

2921

04:24:17,870 --> 04:24:16,040
um

2922

04:24:20,389 --> 04:24:17,880
uh the

2923

04:24:23,929 --> 04:24:20,399
Freewheel Hub on the rear pedals broke

2924

04:24:26,450 --> 04:24:23,939
so we had no power in the back and kind

2925

04:24:27,290 --> 04:24:26,460
of our biggest issue was our seats were

2926
04:24:28,570 --> 04:24:27,300
moving

2927
04:24:31,670 --> 04:24:28,580
so

2928
04:24:33,590 --> 04:24:31,680
they it was difficult for the pilots to

2929
04:24:35,330 --> 04:24:33,600
get a lot of power

2930
04:24:36,590 --> 04:24:35,340
it looks like your team is bypassing an

2931
04:24:39,469 --> 04:24:36,600
obstacle now can you walk us through

2932
04:24:41,510 --> 04:24:39,479
what is happening yes

2933
04:24:43,790 --> 04:24:41,520
yes our goal here was we we know we need

2934
04:24:44,689 --> 04:24:43,800
to get to in eight minutes

2935
04:24:46,490 --> 04:24:44,699
so

2936
04:24:48,530 --> 04:24:46,500
uh we we figured out a lot of wasted

2937
04:24:51,769 --> 04:24:48,540
time happened getting on and off so if

2938
04:24:54,590 --> 04:24:51,779

we could limit that and just move the

2939

04:24:56,030 --> 04:24:54,600

vehicle to where our next task is there

2940

04:24:57,950 --> 04:24:56,040

was no reason for us to Pedal through

2941

04:24:59,689 --> 04:24:57,960

the rest of the course

2942

04:25:02,090 --> 04:24:59,699

and speaking of those tests those are

2943

04:25:03,349 --> 04:25:02,100

the liquid sample retrievals um can you

2944

04:25:06,769 --> 04:25:03,359

talk us through the design of that tool

2945

04:25:08,630 --> 04:25:06,779

that you made yeah okay all right so our

2946

04:25:09,950 --> 04:25:08,640

test tool is actually a 3D printed test

2947

04:25:12,950 --> 04:25:09,960

tool

2948

04:25:16,429 --> 04:25:12,960

um the test that we intended to do were

2949

04:25:18,889 --> 04:25:16,439

the task embedded in the Ravine obstacle

2950

04:25:21,229 --> 04:25:18,899

and then the um

2951
04:25:24,530 --> 04:25:21,239
the 15 pound lid as well that you have

2952
04:25:27,469 --> 04:25:24,540
to keep open and extract the sample size

2953
04:25:28,070 --> 04:25:27,479
from while you're holding the lid open

2954
04:25:31,550 --> 04:25:28,080
um

2955
04:25:35,450 --> 04:25:31,560
so our design is basically a extendable

2956
04:25:38,510 --> 04:25:35,460
hook with a siphon that we'll be able to

2957
04:25:40,670 --> 04:25:38,520
put in and in the tubes and pump the

2958
04:25:41,990 --> 04:25:40,680
water out into containers that are

2959
04:25:45,710 --> 04:25:42,000
mounted

2960
04:25:47,870 --> 04:25:45,720
um and in between the rear operators

2961
04:25:50,750 --> 04:25:47,880
legs

2962
04:25:52,490 --> 04:25:50,760
talk to us about the morale amongst your

2963
04:25:55,070 --> 04:25:52,500

team like what are y'all feeling like

2964

04:25:57,050 --> 04:25:55,080

how has it been this is day two uh tell

2965

04:26:01,429 --> 04:25:57,060

us a little bit about that

2966

04:26:05,330 --> 04:26:03,410

you know we had to fix a lot today to

2967

04:26:06,769 --> 04:26:05,340

make sure that we were ready

2968

04:26:10,429 --> 04:26:06,779

um we're pretty happy I would say

2969

04:26:13,370 --> 04:26:10,439

overall with the Rover now it works much

2970

04:26:14,809 --> 04:26:13,380

better right now than it did

2971

04:26:17,330 --> 04:26:14,819

um right before we started yesterday

2972

04:26:18,649 --> 04:26:17,340

morale was a little low going into the

2973

04:26:20,990 --> 04:26:18,659

first Excursion

2974

04:26:22,790 --> 04:26:21,000

uh we were all pretty nervous and it

2975

04:26:24,410 --> 04:26:22,800

didn't perform as well as we were hoping

2976

04:26:25,969 --> 04:26:24,420

it would

2977

04:26:28,429 --> 04:26:25,979

all right well is there anyone you want

2978

04:26:36,349 --> 04:26:29,990

I'm trying to University in our DET

2979

04:26:40,189 --> 04:26:38,269

and everyone kind of got us here

2980

04:26:41,450 --> 04:26:40,199

amazing thank you so much it's so great

2981

04:26:43,729 --> 04:26:41,460

to hear your story to learn more about

2982

04:26:46,010 --> 04:26:43,739

your Rovers uh your Rover I want you

2983

04:26:47,450 --> 04:26:46,020

guys to go cheer on your team um see

2984

04:26:50,630 --> 04:26:47,460

them do those tasks I'm excited to see

2985

04:26:55,130 --> 04:26:52,670

we are going to talk a little bit more

2986

04:26:56,510 --> 04:26:55,140

about the safety requirements and kind

2987

04:26:58,910 --> 04:26:56,520

of the inspections that you guys have to

2988

04:27:00,649 --> 04:26:58,920

go through before you get on the course

2989

04:27:03,110 --> 04:27:00,659

I mean there's a lot to do before you

2990

04:27:04,370 --> 04:27:03,120

even step foot towards the start line so

2991

04:27:06,889 --> 04:27:04,380

we are going to pass to our colleague

2992

04:27:09,349 --> 04:27:06,899

Lauren to talk more about that Lauren

2993

04:27:11,149 --> 04:27:09,359

that's right Alyssa so although you know

2994

04:27:12,710 --> 04:27:11,159

you go through the course it does not

2995

04:27:13,969 --> 04:27:12,720

start there and with me to help kind of

2996

04:27:16,130 --> 04:27:13,979

explain

2997

04:27:18,410 --> 04:27:16,140

um what all the pre-requirements are I

2998

04:27:20,090 --> 04:27:18,420

have Alex with Texas Tech University

2999

04:27:22,309 --> 04:27:20,100

um tell me your major I'm mechanical

3000

04:27:24,649 --> 04:27:22,319

engineering okay and first talk to me a

3001

04:27:26,510 --> 04:27:24,659

little bit about all the Rovers have to

3002

04:27:28,130 --> 04:27:26,520

be able to fold into a five by five by

3003

04:27:31,070 --> 04:27:28,140

five cube talk to me about the

3004

04:27:32,570 --> 04:27:31,080

importance of why you even need that I

3005

04:27:34,370 --> 04:27:32,580

mean when you're trying to get something

3006

04:27:36,710 --> 04:27:34,380

to another planet it's going to have to

3007

04:27:38,269 --> 04:27:36,720

fit into a you know a space requirement

3008

04:27:39,889 --> 04:27:38,279

so when it folds you don't want to take

3009

04:27:42,110 --> 04:27:39,899

as much space as possible you want as

3010

04:27:43,969 --> 04:27:42,120

little space as possible and how did

3011

04:27:45,950 --> 04:27:43,979

Texas Tech get their Rover designed for

3012

04:27:47,570 --> 04:27:45,960

that folding mechanism so we have two

3013

04:27:49,429 --> 04:27:47,580

triangle plates that help distribute a

3014

04:27:51,349 --> 04:27:49,439

load when unfolded but we also welded a

3015

04:27:53,210 --> 04:27:51,359

hinge on the outs on the bottom of it so

3016

04:27:54,769 --> 04:27:53,220

it folds and folds upwards so and then

3017

04:27:56,510 --> 04:27:54,779

we also have nesting wheels so it can

3018

04:27:57,649 --> 04:27:56,520

fold as much as possible before it

3019

04:27:59,630 --> 04:27:57,659

starts hitting

3020

04:28:01,189 --> 04:27:59,640

um the opposite side now another thing

3021

04:28:03,290 --> 04:28:01,199

that's important on the spaceship is

3022

04:28:05,570 --> 04:28:03,300

weight and I know that there are a lot

3023

04:28:08,330 --> 04:28:05,580

of teens out here that are trying to go

3024

04:28:11,389 --> 04:28:08,340

for a lighter weight Rover that may not

3025

04:28:12,710 --> 04:28:11,399

have been y'all's uh tactic there so

3026

04:28:14,570 --> 04:28:12,720

explain to me

3027

04:28:17,030 --> 04:28:14,580

um a little bit about what your design

3028

04:28:18,110 --> 04:28:17,040

how sturdy it was and how much it

3029

04:28:19,849 --> 04:28:18,120

weighed if you know that off the top of

3030

04:28:22,490 --> 04:28:19,859

your head so we definitely did go for a

3031

04:28:26,030 --> 04:28:22,500

sturdier uh design for it we ended up

3032

04:28:28,309 --> 04:28:26,040

weighing in about 367 pounds definitely

3033

04:28:31,610 --> 04:28:28,319

one of the heavier ones here but

3034

04:28:33,950 --> 04:28:31,620

um yeah we went with a higher factor of

3035

04:28:35,990 --> 04:28:33,960

safety we were kind of worried that if

3036

04:28:37,429 --> 04:28:36,000

it wasn't as our Factory safety wasn't

3037

04:28:39,469 --> 04:28:37,439

as high it would kind of break on the

3038

04:28:41,330 --> 04:28:39,479

course so we haven't had any issues but

3039

04:28:43,550 --> 04:28:41,340

breaking but we definitely were a little

3040

04:28:45,229 --> 04:28:43,560

heavy sure now speaking of some of those

3041

04:28:46,910 --> 04:28:45,239

safety requirements walk me through some

3042

04:28:49,070 --> 04:28:46,920

of the ones that you know were required

3043

04:28:52,130 --> 04:28:51,050

and so we seat belts are obviously

3044

04:28:55,189 --> 04:28:52,140

required

3045

04:28:57,349 --> 04:28:55,199

um we had went with the three-point um

3046

04:28:58,309 --> 04:28:57,359

seat belt restraint so that was one of

3047

04:29:00,710 --> 04:28:58,319

the ones they were like it was highly

3048

04:29:02,510 --> 04:29:00,720

recommended but we went with it and then

3049

04:29:03,889 --> 04:29:02,520

also our wheels are a little bit further

3050

04:29:06,590 --> 04:29:03,899

out so we had no chance of hitting the

3051
04:29:08,149 --> 04:29:06,600
moving Parts as well so and then to make

3052
04:29:10,670 --> 04:29:08,159
sure during the course that it doesn't

3053
04:29:12,590 --> 04:29:10,680
unfold we also added a latching

3054
04:29:20,330 --> 04:29:12,600
mechanism to prevent it from unfolding

3055
04:29:23,630 --> 04:29:21,950
um we want to thank Lyndon Bissell for

3056
04:29:25,670 --> 04:29:23,640
sponsoring us and then we also want to

3057
04:29:26,870 --> 04:29:25,680
thank the Texas Tech Machine shop for

3058
04:29:29,570 --> 04:29:26,880
being there and supporting us through

3059
04:29:32,389 --> 04:29:29,580
this whole competition and time art

3060
04:29:35,030 --> 04:29:32,399
medals for their donations as well

3061
04:29:37,070 --> 04:29:35,040
and I know that you all see behind me

3062
04:29:38,510 --> 04:29:37,080
this wonderful pineapple and I've

3063
04:29:40,729 --> 04:29:38,520

already asked but I can't wait to share

3064

04:29:41,330 --> 04:29:40,739

what does the pineapple stand for

3065

04:29:43,790 --> 04:29:41,340

um

3066

04:29:45,889 --> 04:29:43,800

oh a very cool pineapple currently as of

3067

04:29:47,990 --> 04:29:45,899

right now it is our mascot I'm kind of

3068

04:29:49,969 --> 04:29:48,000

here to cheer us on and we also we had a

3069

04:29:51,410 --> 04:29:49,979

watermelon yesterday and today which was

3070

04:29:53,030 --> 04:29:51,420

really good for some electrolyte

3071

04:29:54,349 --> 04:29:53,040

replenishing so we just have we haven't

3072

04:29:57,229 --> 04:29:54,359

cut it yet so we're kind of carrying it

3073

04:29:58,070 --> 04:29:57,239

around like a little pet right now all

3074

04:30:00,950 --> 04:29:58,080

right

3075

04:30:04,729 --> 04:30:02,809

well thank you all so much for talking

3076

04:30:06,050 --> 04:30:04,739

to me a little bit about that and we're

3077

04:30:07,790 --> 04:30:06,060

wishing you the best with the luck for

3078

04:30:10,130 --> 04:30:07,800

the rest of the competition sending it

3079

04:30:12,349 --> 04:30:10,140

back to the broadcast booth

3080

04:30:13,729 --> 04:30:12,359

thank you Lauren it's so interesting to

3081

04:30:15,590 --> 04:30:13,739

hear from these teams about the behind

3082

04:30:18,410 --> 04:30:15,600

the scenes work that they're doing to

3083

04:30:19,969 --> 04:30:18,420

get here on at this competition today we

3084

04:30:21,590 --> 04:30:19,979

are coming to the end of this segment of

3085

04:30:22,729 --> 04:30:21,600

our broadcast where Lance and I are

3086

04:30:24,889 --> 04:30:22,739

going to take a little bit of a break

3087

04:30:26,269 --> 04:30:24,899

but don't go anywhere because rovers are

3088

04:30:29,030 --> 04:30:26,279

going to be on this course all day we're

3089

04:30:30,349 --> 04:30:29,040

gonna have starting line reporting um as

3090

04:30:32,450 --> 04:30:30,359

well we'll have interviews with the

3091

04:30:34,070 --> 04:30:32,460

teams at the start line so you're you

3092

04:30:36,229 --> 04:30:34,080

don't want to miss a thing so stay tuned

3093

04:30:37,550 --> 04:30:36,239

Lance where can they watch at oh they

3094

04:30:39,110 --> 04:30:37,560

can watch

3095

04:30:41,450 --> 04:30:39,120

YouTube and

3096

04:30:45,410 --> 04:30:41,460

follow us on Facebook and Twitter as

3097

04:30:47,689 --> 04:30:45,420

well uh hashtag is NASA hurt yeah join

3098

04:30:49,189 --> 04:30:47,699

the conversation and it's so at Rover

3099

04:30:50,630 --> 04:30:49,199

challenge that's right

3100

04:30:52,969 --> 04:30:50,640

that's right but we will be taking a

3101

04:30:55,130 --> 04:30:52,979

little bit of a break uh we have a huge

3102

04:30:56,090 --> 04:30:55,140

line of Rovers ready to go though I mean

3103

04:30:57,950 --> 04:30:56,100

they're going to be on the course of

3104

04:31:00,830 --> 04:30:57,960

this very soon we already have some on

3105

04:31:02,330 --> 04:31:00,840

the course right now uh so stay tuned

3106

04:31:04,910 --> 04:31:02,340

and we'll be back with our live

3107

04:31:10,070 --> 04:31:07,490

uh you have been watching NASA's live

3108

04:31:38,330 --> 04:31:10,080

coverage of the 2023 human exploration

3109

04:31:38,340 --> 04:32:21,780

but because

3110

04:32:21,790 --> 04:34:52,551

[Music]

3111

04:34:56,750 --> 04:34:54,830

hi there we're at the human exploration

3112

04:34:59,510 --> 04:34:56,760

Rover challenge here at Huntsville

3113

04:35:01,429 --> 04:34:59,520

Alabama we're at the aviation course

3114

04:35:03,769 --> 04:35:01,439

it's a new course this year and I am

3115

04:35:05,269 --> 04:35:03,779

here with a team at the starting line

3116

04:35:06,890 --> 04:35:05,279

they're getting up stretching out we

3117

04:35:08,750 --> 04:35:06,900

have a lot of teams on the course right

3118

04:35:11,330 --> 04:35:08,760

now you can probably see some of those

3119

04:35:12,949 --> 04:35:11,340

going on and yesterday you guys had a

3120

04:35:15,289 --> 04:35:12,959

great run what are you doing to kind of

3121

04:35:18,470 --> 04:35:15,299

improve on that today so we did a pretty

3122

04:35:20,570 --> 04:35:18,480

great run we topped a top five finish we

3123

04:35:22,070 --> 04:35:20,580

did improve our steering system and our

3124

04:35:24,289 --> 04:35:22,080

task tool just to get a little bit of

3125

04:35:26,631 --> 04:35:24,299

Edge on both of them time wise and

3126

04:35:28,490 --> 04:35:26,641

performance since we skipped some tasks

3127

04:35:30,230 --> 04:35:28,500

that uh we do plan on performing today

3128

04:35:32,029 --> 04:35:30,240

hopefully it will get us in a bigger

3129

04:35:34,250 --> 04:35:32,039

position that we were in yesterday so

3130

04:35:35,869 --> 04:35:34,260

our expectations are extremely high but

3131

04:35:37,369 --> 04:35:35,879

either we win or we learn that's

3132

04:35:39,349 --> 04:35:37,379

basically our mentality right now and we

3133

04:35:41,269 --> 04:35:39,359

want to give it all so oh that is a

3134

04:35:43,551 --> 04:35:41,279

great way to think about this you win or

3135

04:35:44,869 --> 04:35:43,561

you learn now tell me what school are

3136

04:35:46,730 --> 04:35:44,879

you from again we're from the University

3137

04:35:48,230 --> 04:35:46,740

of Puerto Rico madagas campus

3138

04:35:49,670 --> 04:35:48,240

all right and it took you guys a little

3139

04:35:51,051 --> 04:35:49,680

bit to get here so you couldn't be here

3140

04:35:53,449 --> 04:35:51,061

without some of the sponsors is that

3141

04:35:55,250 --> 04:35:53,459

right yeah yeah but a huge shout out to

3142

04:35:58,250 --> 04:35:55,260

FedEx since they had a one-day shipping

3143

04:36:00,051 --> 04:35:58,260

we did match to uh um scheduled out with

3144

04:36:01,970 --> 04:36:00,061

them and it got really fast here in time

3145

04:36:02,869 --> 04:36:01,980

so that really helped us a lot when we

3146

04:36:04,490 --> 04:36:02,879

got here

3147

04:36:06,170 --> 04:36:04,500

um the other day it was completely fine

3148

04:36:08,510 --> 04:36:06,180

the roller was intact so that really

3149

04:36:11,209 --> 04:36:08,520

helped us uh gain an edge in the

3150

04:36:12,769 --> 04:36:11,219

performance upgrades we wanted to uh to

3151

04:36:14,990 --> 04:36:12,779

do since I know that some shipping

3152

04:36:16,789 --> 04:36:15,000

methods can you know damage the Rover

3153

04:36:19,010 --> 04:36:16,799

itself but thankfully you know I can't

3154

04:36:20,631 --> 04:36:19,020

be more thankful of FedEx oh that is so

3155

04:36:22,551 --> 04:36:20,641

fantastic and on the back of your shirts

3156

04:36:25,070 --> 04:36:22,561

you guys have things yeah so we have

3157

04:36:28,189 --> 04:36:25,080

Naval nuclear lab Northrop Grumman we

3158

04:36:29,510 --> 04:36:28,199

have GM on our sleeves and NASA too uh

3159

04:36:31,250 --> 04:36:29,520

we also have FedEx on there we have

3160

04:36:33,230 --> 04:36:31,260

racing Arc which is a welding company

3161

04:36:35,209 --> 04:36:33,240

from Puerto Rico we also

3162

04:36:37,429 --> 04:36:35,219

see Boeing

3163

04:36:44,150 --> 04:36:37,439

I think that's all of them right yeah

3164

04:36:47,990 --> 04:36:46,369

it takes a lot of people to get here and

3165

04:36:50,810 --> 04:36:48,000

how long did it take you guys to build

3166

04:36:52,250 --> 04:36:50,820

your Rover wow it was pretty complex uh

3167

04:36:55,310 --> 04:36:52,260

same Captain I really wanted to start

3168

04:36:57,529 --> 04:36:55,320

early uh way before the manuals were

3169

04:36:59,689 --> 04:36:57,539

um you know sent out in their site so we

3170

04:37:01,609 --> 04:36:59,699

started around of May of last year just

3171

04:37:03,470 --> 04:37:01,619

to design the entire thing since you

3172

04:37:05,929 --> 04:37:03,480

know the implementation of the belt

3173

04:37:08,209 --> 04:37:05,939

drive system that NASA started off yet

3174

04:37:09,949 --> 04:37:08,219

um last year we wanted to upgrade that

3175

04:37:11,330 --> 04:37:09,959

since last year we had a little bit of

3176

04:37:13,490 --> 04:37:11,340

um trouble with that we were really

3177

04:37:14,869 --> 04:37:13,500

accustomed to chain drive so we know we

3178

04:37:18,789 --> 04:37:14,879

beat us a challenge started tackling

3179

04:37:21,410 --> 04:37:18,799

from may we finished the sign by

3180

04:37:22,970 --> 04:37:21,420

November but we did we plan on starting

3181

04:37:24,650 --> 04:37:22,980

all the manufacturing by December but

3182

04:37:27,109 --> 04:37:24,660

unfortunately we had Rick and Fiona that

3183

04:37:29,209 --> 04:37:27,119

the latest quite a while shipping times

3184

04:37:32,090 --> 04:37:29,219

the campus was closed for two full weeks

3185

04:37:35,029 --> 04:37:32,100

so yeah that delayed us but we did begin

3186

04:37:37,910 --> 04:37:35,039

full manufacturing on uh January and we

3187

04:37:39,769 --> 04:37:37,920

literally finished it last week

3188

04:37:41,330 --> 04:37:39,779

your team is bringing the energy we have

3189

04:37:43,250 --> 04:37:41,340

the air horns do you guys have any kind

3190

04:37:45,890 --> 04:37:43,260

of chance or anything that you do oh

3191

04:37:48,410 --> 04:37:45,900

yeah we have a lot oh we have way too

3192

04:37:50,570 --> 04:37:48,420

much from that uh but we love to say you

3193

04:37:52,010 --> 04:37:50,580

know our words like boricua uh we like

3194

04:37:55,250 --> 04:37:52,020

to send the planas which is a cultural

3195

04:37:57,590 --> 04:37:55,260

song uh and yeah that's basically the

3196

04:37:59,209 --> 04:37:57,600

most popular ones we like to do

3197

04:38:01,250 --> 04:37:59,219

um and jump around we like to scream we

3198

04:38:03,051 --> 04:38:01,260

like to make a lot of noise so as you

3199

04:38:05,090 --> 04:38:03,061

said that's in our blood yeah we've been

3200

04:38:07,250 --> 04:38:05,100

doing this for 29 years next year will

3201

04:38:09,051 --> 04:38:07,260

be Year 30. we're so excited that you

3202

04:38:10,609 --> 04:38:09,061

guys are here and uh we'll get you guys

3203

04:38:12,230 --> 04:38:10,619

counted down here in just a few minutes

3204

04:38:13,730 --> 04:38:12,240

and good luck on the course sure thing

3205

04:39:21,051 --> 04:38:13,740

thank you good luck to other teams all

3206

04:39:21,061 --> 04:39:36,051

positive

3207

04:40:04,820 --> 04:39:39,410

we're over one two nine get ready

3208

04:41:18,708 --> 04:40:55,690

[Music]

3209

04:41:18,718 --> 04:41:49,950

foreign

3210

04:41:49,960 --> 04:42:25,490

[Applause]

3211

04:42:25,500 --> 04:43:03,530

foreign

3212

04:43:07,310 --> 04:43:05,330

hey y'all we are out here at the human

3213

04:43:09,050 --> 04:43:07,320

exploration Rover challenge we are at

3214

04:43:10,730 --> 04:43:09,060

the start line and we have another team

3215

04:43:12,948 --> 04:43:10,740

just now getting ready can you guys give

3216

04:43:14,208 --> 04:43:12,958

me your names real quick my name is Owen

3217

04:43:17,330 --> 04:43:14,218

Jansen

3218

04:43:18,590 --> 04:43:17,340

I'm Celine Zarate awesome and what team

3219

04:43:20,810 --> 04:43:18,600

are you with

3220

04:43:23,150 --> 04:43:20,820

Shin Brothers University in Memphis in

3221

04:43:24,170 --> 04:43:23,160

Memphis Tennessee well just up the way

3222

04:43:26,810 --> 04:43:24,180

so tell us a little

3223

04:43:30,050 --> 04:43:26,820

trip over how did things go yesterday

3224

04:43:32,030 --> 04:43:30,060

so the name's carbon Comet uh we use a

3225

04:43:34,550 --> 04:43:32,040

whole lot of carbon fiber

3226

04:43:38,390 --> 04:43:34,560

um yesterday we got through an obstacle

3227

04:43:42,350 --> 04:43:38,400

got to another one and we just smashed

3228

04:43:44,448 --> 04:43:42,360

our wheel in so last night we made these

3229

04:43:47,090 --> 04:43:44,458

wheels out of plywood so now we can race

3230

04:43:48,948 --> 04:43:47,100

uh broker Wheels but we can race today

3231

04:43:50,510 --> 04:43:48,958

so we're happy well I'm glad that you

3232

04:43:52,190 --> 04:43:50,520

guys are out here so what is your

3233

04:43:53,570 --> 04:43:52,200

strategy then today with these plywood

3234

04:43:55,610 --> 04:43:53,580

Wheels do you have to take things a

3235

04:43:56,810 --> 04:43:55,620

little bit more delicately or what are

3236

04:43:59,150 --> 04:43:56,820

we thinking

3237

04:44:02,090 --> 04:43:59,160

well obviously these are new wheels so

3238

04:44:03,948 --> 04:44:02,100

we didn't get to test as much as home so

3239

04:44:06,288 --> 04:44:03,958

we're a little uncertain as to how it'll

3240

04:44:08,690 --> 04:44:06,298

go but we do have a lot of traction so

3241

04:44:11,330 --> 04:44:08,700

we do have the opportunity to go through

3242

04:44:13,010 --> 04:44:11,340

different obstacles this time so we're

3243

04:44:16,368 --> 04:44:13,020

looking forward to it I think we'll do

3244

04:44:17,930 --> 04:44:16,378

well hopefully so we're good well I'm

3245

04:44:20,030 --> 04:44:17,940

excited to see you guys we'll make it

3246

04:44:21,288 --> 04:44:20,040

quick and simple then do you have any

3247

04:44:23,208 --> 04:44:21,298

shout outs that you want to give to

3248

04:44:25,868 --> 04:44:23,218

anybody real quick yeah we'd like to

3249

04:44:30,110 --> 04:44:25,878

shout out our advisor Dr Shea

3250

04:44:33,230 --> 04:44:30,120

Mr Motes Thomas podesta uh they were

3251
04:44:35,570 --> 04:44:33,240
yeah anyone at CBU they helped us build

3252
04:44:36,890 --> 04:44:35,580
this so well congratulations to you guys

3253
04:44:38,150 --> 04:44:36,900
and we're excited to see you guys get

3254
04:44:40,250 --> 04:44:38,160
started all right

3255
04:44:51,180 --> 04:44:40,260
okay guys we'll go back to watching the

3256
04:46:23,270 --> 04:44:56,330
[Music]

3257
04:46:23,280 --> 04:46:27,830
very good for that

3258
04:46:27,840 --> 04:46:42,230
seriously

3259
04:46:42,240 --> 04:47:34,430
[Music]

3260
04:47:34,440 --> 04:48:45,288
Rover 147. Get Ready Get Set Go

3261
04:48:45,298 --> 04:49:46,910
thank you

3262
04:49:50,690 --> 04:49:49,368
hey everyone we have teams lined up at

3263
04:49:52,730 --> 04:49:50,700

getting ready to start for the human

3264

04:49:54,590 --> 04:49:52,740

exploration Rover challenge then we have

3265

04:49:56,090 --> 04:49:54,600

more than 48 teams from all across the

3266

04:49:58,010 --> 04:49:56,100

world and we actually have a team here

3267

04:49:59,510 --> 04:49:58,020

from Singapore today that they but

3268

04:50:01,550 --> 04:49:59,520

thanks so much for coming to Sweet Home

3269

04:50:05,230 --> 04:50:01,560

Alabama so tell me really quick what's

3270

04:50:09,050 --> 04:50:07,430

awesome now tell me a little bit about

3271

04:50:10,610 --> 04:50:09,060

your Rover because it looks like you

3272

04:50:12,110 --> 04:50:10,620

have six wheels and that's a little

3273

04:50:14,270 --> 04:50:12,120

unique that we've seen out here today

3274

04:50:16,970 --> 04:50:14,280

what we've done is basically uh this is

3275

04:50:19,910 --> 04:50:16,980

used for stability and I'll put a low

3276

04:50:22,128 --> 04:50:19,920

center of gravity so we can Traverse the

3277

04:50:24,590 --> 04:50:22,138

obstacles now did you guys get to test

3278

04:50:27,230 --> 04:50:24,600

any of those obstacles yesterday oh no

3279

04:50:29,570 --> 04:50:27,240

no no oh yeah yeah but like our team did

3280

04:50:31,190 --> 04:50:29,580

other people from our team okay so is

3281

04:50:32,448 --> 04:50:31,200

this your first time racing then this

3282

04:50:34,010 --> 04:50:32,458

whole weekend yeah

3283

04:50:36,410 --> 04:50:34,020

yeah okay so what's the strategy then

3284

04:50:38,330 --> 04:50:36,420

like what are we in uh go for and so uh

3285

04:50:40,070 --> 04:50:38,340

from our teammates we learned some

3286

04:50:41,510 --> 04:50:40,080

obstacles are dues and some obstacle are

3287

04:50:43,910 --> 04:50:41,520

don'ts so we're trying to follow that

3288

04:50:45,288 --> 04:50:43,920

we're gonna try avoiding the mud patches

3289

04:50:46,730 --> 04:50:45,298

because we heard from other teams that

3290

04:50:47,628 --> 04:50:46,740

the mod was really hard to Traverse

3291

04:50:49,448 --> 04:50:47,638

through

3292

04:50:51,410 --> 04:50:49,458

um

3293

04:50:53,690 --> 04:50:51,420

that's something I'm gonna try something

3294

04:50:56,390 --> 04:50:53,700

yeah definitely yep so we're gonna stick

3295

04:50:57,590 --> 04:50:56,400

to speed yeah speed so stick to speed so

3296

04:50:59,628 --> 04:50:57,600

you're going for the eight minute Mark

3297

04:51:02,150 --> 04:50:59,638

and under then are you gonna go for any

3298

04:51:03,830 --> 04:51:02,160

of the retrievals do you think no no I

3299

04:51:05,270 --> 04:51:03,840

don't think so I don't think so I mean

3300

04:51:07,550 --> 04:51:05,280

it'll all depend on the time but right

3301
04:51:08,810 --> 04:51:07,560
now we don't have fun okay well I love

3302
04:51:10,128 --> 04:51:08,820
it well is there anything that you want

3303
04:51:12,708 --> 04:51:10,138
to give a quick shout out to I know you

3304
04:51:14,090 --> 04:51:12,718
came all the way here from Singapore my

3305
04:51:17,690 --> 04:51:14,100
dog Oreo

3306
04:51:21,170 --> 04:51:19,788
NPS well thank you guys so much for

3307
04:51:23,150 --> 04:51:21,180
coming here and good luck today I'm

3308
04:51:32,850 --> 04:51:23,160
excited to see you sir racing okay thank

3309
04:51:32,860 --> 04:52:07,250
[Music]

3310
04:52:07,260 --> 04:52:28,368
no

3311
04:52:31,910 --> 04:52:30,288
or are you watching them go around the

3312
04:52:38,208 --> 04:52:31,920
corner

3313
04:52:38,218 --> 04:52:41,208

right

3314

04:52:41,218 --> 04:55:07,788

inside the umbrella

3315

04:55:11,990 --> 04:55:09,770

here at the starting line for NASA's

3316

04:55:13,788 --> 04:55:12,000

human exploration Rover challenge we

3317

04:55:16,010 --> 04:55:13,798

have teams from all across the world out

3318

04:55:18,570 --> 04:55:16,020

here including one from Mexico can I get

3319

04:55:22,070 --> 04:55:18,580

a big cheer just really quickly

3320

04:55:24,288 --> 04:55:22,080

[Applause]

3321

04:55:25,970 --> 04:55:24,298

I think we have the energy so you

3322

04:55:27,708 --> 04:55:25,980

quickly tell me just your names and what

3323

04:55:29,570 --> 04:55:27,718

your role is my name is Rafael Diaz and

3324

04:55:31,250 --> 04:55:29,580

I'm the team leader my name is Renata

3325

04:55:33,708 --> 04:55:31,260

Camacho and I'm in Prototype development

3326

04:55:34,910 --> 04:55:33,718

well this is a very unique Rover and I

3327

04:55:36,410 --> 04:55:34,920

understand that this is going to be your

3328

04:55:38,930 --> 04:55:36,420

first time Racing for this whole weekend

3329

04:55:40,730 --> 04:55:38,940

correct yeah that's right

3330

04:55:43,610 --> 04:55:40,740

yeah we had issues during the mission

3331

04:55:45,470 --> 04:55:43,620

right in this review we are with our

3332

04:55:47,868 --> 04:55:45,480

Wheels but we have since fixed them and

3333

04:55:49,070 --> 04:55:47,878

we're here to try it out well tell me a

3334

04:55:50,690 --> 04:55:49,080

little bit about your wheels like what

3335

04:55:52,550 --> 04:55:50,700

made you pick this design I see there's

3336

04:55:54,770 --> 04:55:52,560

some really cool tread marks on here too

3337

04:55:57,110 --> 04:55:54,780

yeah the first design was to get a ring

3338

04:55:58,850 --> 04:55:57,120

made of aluminum to wrap silk absorbs

3339

04:56:00,288 --> 04:55:58,860

and doesn't give all the work to

3340

04:56:03,170 --> 04:56:00,298

suspension

3341

04:56:05,628 --> 04:56:03,180

yeah then we put the lids on top to

3342

04:56:07,670 --> 04:56:05,638

avoid the deformation and to essentially

3343

04:56:09,830 --> 04:56:07,680

make them stay round

3344

04:56:12,050 --> 04:56:09,840

um because they're the aluminum just

3345

04:56:14,570 --> 04:56:12,060

didn't hold up as we wanted it to right

3346

04:56:16,010 --> 04:56:14,580

well it looks like um so these look like

3347

04:56:17,690 --> 04:56:16,020

they're designed to take on as many of

3348

04:56:20,890 --> 04:56:17,700

the challenges as possible what's your

3349

04:56:26,510 --> 04:56:24,650

simple obstacles and by other ones but

3350

04:56:28,730 --> 04:56:26,520

we try very hard

3351

04:56:30,410 --> 04:56:28,740

yeah just essentially give it a roll

3352

04:56:32,030 --> 04:56:30,420

well how have you guys been training

3353

04:56:34,128 --> 04:56:32,040

then for this race I mean you guys look

3354

04:56:35,750 --> 04:56:34,138

like you're ready to go everybody looks

3355

04:56:37,368 --> 04:56:35,760

ready to go but has there been a lot of

3356

04:56:39,190 --> 04:56:37,378

training a lot of prep a lot of training

3357

04:56:41,890 --> 04:56:39,200

that off caffeine and making

3358

04:56:44,930 --> 04:56:41,900

and a lot of good energy essentially

3359

04:56:46,670 --> 04:56:44,940

well I love it well I love it and

3360

04:56:48,170 --> 04:56:46,680

congratulations and good luck to all of

3361

04:56:49,970 --> 04:56:48,180

you I'll let you guys keep going but I

3362

04:56:51,830 --> 04:56:49,980

think we need just one more cheer from

3363

04:56:56,948 --> 04:56:51,840

everybody before we get started can we

3364

04:56:56,958 --> 04:57:59,150

thank you

3365

04:58:15,580 --> 04:58:01,690

foreign

3366

04:59:41,930 --> 04:59:32,630

[Music]

3367

04:59:41,940 --> 05:01:08,868

come on

3368

05:01:08,878 --> 05:01:29,810

foreign

3369

05:04:14,330 --> 05:01:31,670

[Music]

3370

05:04:18,590 --> 05:04:16,730

we are out here at the starting line for

3371

05:04:20,270 --> 05:04:18,600

NASA's human exploration Rover challenge

3372

05:04:22,010 --> 05:04:20,280

we are checking in with the teams just

3373

05:04:23,628 --> 05:04:22,020

before they get started as we mentioned

3374

05:04:25,310 --> 05:04:23,638

earlier we have teams from all across

3375

05:04:26,868 --> 05:04:25,320

the world here but we also have some a

3376

05:04:28,910 --> 05:04:26,878

little bit closer to home we have a team

3377

05:04:31,070 --> 05:04:28,920

from South Alabama gearing Up Now

3378

05:04:32,990 --> 05:04:31,080

quickly tell me this is a unique Rover

3379

05:04:35,270 --> 05:04:33,000

can you tell me your names and something

3380

05:04:38,448 --> 05:04:35,280

that stands out to you about this

3381

05:04:40,368 --> 05:04:38,458

my name is Felicity Bryant and something

3382

05:04:41,810 --> 05:04:40,378

that stands out to me about it is our

3383

05:04:43,128 --> 05:04:41,820

back-to-back design we haven't seen a

3384

05:04:44,110 --> 05:04:43,138

lot of other teams with the back-to-back

3385

05:04:46,670 --> 05:04:44,120

design

3386

05:04:47,628 --> 05:04:46,680

and we love it because it just folds up

3387

05:04:50,030 --> 05:04:47,638

in the middle

3388

05:04:51,590 --> 05:04:50,040

and I'm Michael Cottrell and one unique

3389

05:04:52,788 --> 05:04:51,600

unique thing about our Rover is we

3390

05:04:54,948 --> 05:04:52,798

actually have a steering wheel unlike

3391

05:04:56,930 --> 05:04:54,958

other teams well tell me why did you

3392

05:04:58,670 --> 05:04:56,940

guys choose a back-to-back design and

3393

05:04:59,510 --> 05:04:58,680

what's the perk of having a steering

3394

05:05:02,090 --> 05:04:59,520

wheel

3395

05:05:04,128 --> 05:05:02,100

so the back-to-back design means we

3396

05:05:05,930 --> 05:05:04,138

could just have a mirrored image of our

3397

05:05:08,690 --> 05:05:05,940

Rover from one side to the other so we

3398

05:05:10,670 --> 05:05:08,700

could easily manufacture parts

3399

05:05:12,410 --> 05:05:10,680

oh my goodness that's incredible so and

3400

05:05:13,970 --> 05:05:12,420

I'm looking then am I correct in

3401

05:05:16,250 --> 05:05:13,980

assuming that you made these tires

3402

05:05:19,010 --> 05:05:16,260

yourself as well yes ma'am the original

3403

05:05:21,650 --> 05:05:19,020

intention was to 3D print our tires but

3404

05:05:23,990 --> 05:05:21,660

our printer failed about halfway through

3405

05:05:26,150 --> 05:05:24,000

a tire and we tried to get it reworking

3406

05:05:27,650 --> 05:05:26,160

but um ended up having to improvise our

3407

05:05:30,350 --> 05:05:27,660

tires so these are actually plywood

3408

05:05:32,208 --> 05:05:30,360

styrofoam and rubber that's incredible

3409

05:05:34,430 --> 05:05:32,218

did you guys get to test out this design

3410

05:05:37,128 --> 05:05:34,440

in your tires yesterday

3411

05:05:39,050 --> 05:05:37,138

um actually yes we bypassed most of the

3412

05:05:40,970 --> 05:05:39,060

obstacles but we were able to finish the

3413

05:05:43,190 --> 05:05:40,980

course in a little bit over the time

3414

05:05:45,410 --> 05:05:43,200

about 15 minutes so what's today's

3415

05:05:46,910 --> 05:05:45,420

strategy then are we going to go for

3416

05:05:49,730 --> 05:05:46,920

time or are we going for as many

3417

05:05:53,990 --> 05:05:52,070

today we're going to try to go for time

3418

05:05:56,628 --> 05:05:54,000

um we're gonna try to go and hit a few

3419

05:05:59,090 --> 05:05:56,638

obstacles but mainly our goal is to get

3420

05:06:01,788 --> 05:05:59,100

under the eight minutes okay no I gotta

3421

05:06:03,830 --> 05:06:01,798

ask you have a very uh unique friend up

3422

05:06:05,810 --> 05:06:03,840

front is this the mascot what are we

3423

05:06:08,510 --> 05:06:05,820

doing with this astronaut up here yes

3424

05:06:10,970 --> 05:06:08,520

that is Jonathan he was giving us given

3425

05:06:12,890 --> 05:06:10,980

to us by one of the Alabama Space Grant

3426
05:06:14,990 --> 05:06:12,900
Representatives yesterday so we zip tied

3427
05:06:16,490 --> 05:06:15,000
them on there today for good luck oh I

3428
05:06:18,170 --> 05:06:16,500
love it well since we have a little bit

3429
05:06:19,490 --> 05:06:18,180
of time before you guys get started do

3430
05:06:21,110 --> 05:06:19,500
you have anything that you want to shout

3431
05:06:23,690 --> 05:06:21,120
out to anybody who's been really helpful

3432
05:06:24,890 --> 05:06:23,700
to getting you guys here today

3433
05:06:27,530 --> 05:06:24,900
um we would love to shout out our

3434
05:06:29,628 --> 05:06:27,540
University because I've actually been a

3435
05:06:31,430 --> 05:06:29,638
great sponsor in all this

3436
05:06:32,690 --> 05:06:31,440
um we'd like to thank of course miss

3437
05:06:34,190 --> 05:06:32,700
Catherine

3438
05:06:36,288 --> 05:06:34,200

um champion because she helped us order

3439

05:06:37,730 --> 05:06:36,298

all the parts for this which was a

3440

05:06:40,190 --> 05:06:37,740

hassle in itself

3441

05:06:42,410 --> 05:06:40,200

and as well as Dr Stedman and Dr

3442

05:06:44,090 --> 05:06:42,420

Richardson for just encouraging us the

3443

05:06:45,708 --> 05:06:44,100

whole way well you know you have teams

3444

05:06:47,330 --> 05:06:45,718

from all across the country here have

3445

05:06:49,730 --> 05:06:47,340

been able to interact with anybody in

3446

05:06:51,110 --> 05:06:49,740

the pit Crews or anything like that oh

3447

05:06:52,910 --> 05:06:51,120

of course as you can see we have

3448

05:06:55,070 --> 05:06:52,920

multiple stickers all over our Rover

3449

05:06:57,530 --> 05:06:55,080

from many of the different teams from

3450

05:06:59,150 --> 05:06:57,540

around here so yeah we definitely have

3451

05:07:00,830 --> 05:06:59,160

yes we've been trying to show our

3452

05:07:02,868 --> 05:07:00,840

support every time somebody gives us a

3453

05:07:03,890 --> 05:07:02,878

sticker we add it to our Rover so well I

3454

05:07:05,390 --> 05:07:03,900

love that so does that mean that you're

3455

05:07:08,510 --> 05:07:05,400

going to be taking this Rover home with

3456

05:07:10,310 --> 05:07:08,520

you yes ma'am it will be taking it will

3457

05:07:11,628 --> 05:07:10,320

be coming home with us everybody else on

3458

05:07:13,070 --> 05:07:11,638

the team except for me graduates this

3459

05:07:15,288 --> 05:07:13,080

year so I hope to continue the project

3460

05:07:17,208 --> 05:07:15,298

next year Well fingers crossed for you

3461

05:07:39,890 --> 05:07:17,218

guys and good luck today uh thank you so

3462

05:07:39,900 --> 05:10:00,708

thank you

3463

05:12:36,100 --> 05:11:42,110

foreign

3464

05:12:36,110 --> 05:12:41,690

[Music]

3465

05:12:41,700 --> 05:12:56,868

foreign

3466

05:12:56,878 --> 05:13:37,010

hold on

3467

05:13:37,020 --> 05:14:16,670

to me

3468

05:14:16,680 --> 05:15:21,230

get ready

3469

05:15:21,240 --> 05:16:05,510

foreign

3470

05:16:05,520 --> 05:16:13,250

okay

3471

05:16:13,260 --> 05:18:10,788

I have no Drive

3472

05:18:15,170 --> 05:18:13,190

we are back for NASA's human exploration

3473

05:18:16,850 --> 05:18:15,180

Rover challenge now again we have teams

3474

05:18:18,830 --> 05:18:16,860

competing in high school and in college

3475

05:18:20,810 --> 05:18:18,840

and we have a high school team out here

3476

05:18:22,190 --> 05:18:20,820

from the Dominican Republic really

3477

05:18:25,208 --> 05:18:22,200

quickly can you tell me the name of your

3478

05:18:27,350 --> 05:18:25,218

school that you're from difficult

3479

05:18:28,610 --> 05:18:27,360

I think we need to do that one more time

3480

05:18:30,110 --> 05:18:28,620

because you looked like you guys are

3481

05:18:33,350 --> 05:18:30,120

going to say at the same time so can we

3482

05:18:37,190 --> 05:18:35,208

that's perfect and you guys are in high

3483

05:18:39,470 --> 05:18:37,200

school I believe you're both 17 is that

3484

05:18:43,190 --> 05:18:39,480

correct okay what are your names

3485

05:18:44,990 --> 05:18:43,200

my name is Ariel Talamo

3486

05:18:46,550 --> 05:18:45,000

okay

3487

05:18:48,110 --> 05:18:46,560

it's been quite a bit time tell me a

3488

05:18:50,230 --> 05:18:48,120

little bit about your Rover what stands

3489

05:18:53,930 --> 05:18:50,240

out I really like the tires

3490

05:18:55,730 --> 05:18:53,940

they're over the wheels is the my

3491

05:18:59,510 --> 05:18:55,740

favorite part of the Rover is the wheels

3492

05:19:02,510 --> 05:18:59,520

and it's made of plastic tubes and and

3493

05:19:06,650 --> 05:19:02,520

tape and Rover and Rover for more

3494

05:19:10,788 --> 05:19:06,660

friction and this is this is a aluminum

3495

05:19:12,948 --> 05:19:10,798

and it's a a special part of a rubber

3496

05:19:14,270 --> 05:19:12,958

well I know that Rovers have to be

3497

05:19:15,830 --> 05:19:14,280

lightweight because we want to try to

3498

05:19:17,510 --> 05:19:15,840

simulate a little bit what's going on

3499

05:19:19,610 --> 05:19:17,520

the moon I know that you guys got to

3500

05:19:22,070 --> 05:19:19,620

race a little bit yesterday how did

3501

05:19:25,788 --> 05:19:22,080

yesterday go what's today's strategy

3502

05:19:29,330 --> 05:19:25,798

into this strategy is live by past some

3503

05:19:31,010 --> 05:19:29,340

obstacles and like to only do that

3504

05:19:34,310 --> 05:19:31,020

obstacle have tasks

3505

05:19:39,350 --> 05:19:37,550

to complete the the course

3506

05:19:41,570 --> 05:19:39,360

but I like that strategy that's a good

3507

05:19:44,090 --> 05:19:41,580

one so we're going to go for some sample

3508

05:19:45,410 --> 05:19:44,100

returns if we can okay and it looks like

3509

05:19:46,788 --> 05:19:45,420

we have a little bit of a cheering

3510

05:19:50,570 --> 05:19:46,798

section over there do you guys want to

3511

05:19:54,470 --> 05:19:53,150

up that is excellent all right well do

3512

05:19:55,788 --> 05:19:54,480

you guys want to give any shout out I

3513

05:19:57,050 --> 05:19:55,798

know you've got your cheer squad here

3514

05:19:58,368 --> 05:19:57,060

but is there anyone back home that's

3515

05:20:01,670 --> 05:19:58,378

watching right now that you want to say

3516

05:20:04,550 --> 05:20:01,680

hi to yes so um what's in my teammates

3517

05:20:06,050 --> 05:20:04,560

in Dominican Republic and Elisa

3518

05:20:08,570 --> 05:20:06,060

centifical

3519

05:20:10,670 --> 05:20:08,580

yeah that's my family my friends all

3520

05:20:12,830 --> 05:20:10,680

right watch me right now if I'm not bad

3521

05:20:14,330 --> 05:20:12,840

but so

3522

05:20:16,010 --> 05:20:14,340

you can give them a good wave if you

3523

05:20:16,810 --> 05:20:16,020

want to that's okay you can leave at the

3524

05:20:18,890 --> 05:20:16,820

camera

3525

05:20:20,030 --> 05:20:18,900

all right well I think we're out here

3526

05:20:43,310 --> 05:20:20,040

and you guys are about ready to get

3527

05:24:10,470 --> 05:22:15,230

foreign

3528

05:24:10,480 --> 05:24:16,910

[Music]

3529

05:24:16,920 --> 05:24:41,690

almost there

3530

05:24:41,700 --> 05:25:42,170

all right

3531

05:25:46,070 --> 05:25:44,090

thank you so much we are back at the

3532

05:25:47,570 --> 05:25:46,080

human exploration Rover challenge we're

3533

05:25:50,090 --> 05:25:47,580

here with another team from the Rhode

3534

05:25:52,490 --> 05:25:50,100

Island School of Design and let's see

3535

05:25:54,830 --> 05:25:52,500

what is your name I'm Alex hi Alex and

3536

05:25:57,470 --> 05:25:54,840

our co-pilot is Hannah Hannah and then

3537

05:25:59,330 --> 05:25:57,480

I'm also here with Felix all right Felix

3538

05:26:02,208 --> 05:25:59,340

you guys talk to me a little bit about

3539

05:26:04,368 --> 05:26:02,218

this Rover design so uh we've been

3540

05:26:06,170 --> 05:26:04,378

competing for about 10 years we've been

3541

05:26:08,570 --> 05:26:06,180

competing since 2010

3542

05:26:09,708 --> 05:26:08,580

um our Rover has evolved from all of

3543

05:26:11,270 --> 05:26:09,718

those times we've learned a lot of

3544

05:26:14,090 --> 05:26:11,280

things we've come back every time and

3545

05:26:16,190 --> 05:26:14,100

we're almost is the lightest and we want

3546

05:26:17,930 --> 05:26:16,200

to be the fastest and do all the things

3547

05:26:20,270 --> 05:26:17,940

that we can we're well prepared today

3548

05:26:22,190 --> 05:26:20,280

yesterday was not so good but we're back

3549

05:26:23,270 --> 05:26:22,200

again we fixed everything we need to and

3550

05:26:24,830 --> 05:26:23,280

what are some of the things that you

3551
05:26:26,750 --> 05:26:24,840
fixed yesterday to make sure that today

3552
05:26:27,890 --> 05:26:26,760
goes well so we have some issues with

3553
05:26:29,750 --> 05:26:27,900
our shifters

3554
05:26:32,150 --> 05:26:29,760
um the cables on them are a little

3555
05:26:34,550 --> 05:26:32,160
finicky we've done a lot to get them

3556
05:26:37,190 --> 05:26:34,560
tuned in correctly the rear action we

3557
05:26:38,510 --> 05:26:37,200
re-welded that back on Richard came off

3558
05:26:40,368 --> 05:26:38,520
yesterday and added some reinforcement

3559
05:26:42,948 --> 05:26:40,378
to it all right

3560
05:26:45,230 --> 05:26:42,958
awesome and talk to me about what you

3561
05:26:47,030 --> 05:26:45,240
did to train for this

3562
05:26:49,070 --> 05:26:47,040
um well me and Hannah we I think we

3563
05:26:49,850 --> 05:26:49,080

cycled a few days before this or a few

3564

05:26:52,010 --> 05:26:49,860

weeks

3565

05:26:54,410 --> 05:26:52,020

um just go in the gym get on the cycle

3566

05:26:55,550 --> 05:26:54,420

yeah any kind of a playlist that you had

3567

05:26:58,310 --> 05:26:55,560

going on

3568

05:27:00,550 --> 05:26:58,320

for sure all right name one one or two

3569

05:27:03,948 --> 05:27:00,560

artists on there uh Queen

3570

05:27:05,868 --> 05:27:03,958

I mean I want to ride my bicycle yes I

3571

05:27:07,430 --> 05:27:05,878

do I want to ride my Rover all right

3572

05:27:09,170 --> 05:27:07,440

anything else that you guys want to talk

3573

05:27:10,610 --> 05:27:09,180

about uh any tasks that you're kind of

3574

05:27:12,288 --> 05:27:10,620

worried about or you're going to try to

3575

05:27:13,368 --> 05:27:12,298

do today well we're going to try and do

3576

05:27:14,570 --> 05:27:13,378

them all we're a little worried about

3577

05:27:16,788 --> 05:27:14,580

the U-joint

3578

05:27:18,410 --> 05:27:16,798

um the the u-pipe one uh it's not quite

3579

05:27:21,650 --> 05:27:18,420

what we expected we had made our own

3580

05:27:22,490 --> 05:27:21,660

analogous Tool uh at home and when we

3581

05:27:23,868 --> 05:27:22,500

got here it just looks a little

3582

05:27:25,550 --> 05:27:23,878

different than what we expected but

3583

05:27:26,690 --> 05:27:25,560

we'll see what we can do and if time

3584

05:27:29,510 --> 05:27:26,700

allows it we're going to try them all

3585

05:27:31,010 --> 05:27:29,520

right I'm so excited for you guys now

3586

05:27:33,050 --> 05:27:31,020

communication is really important

3587

05:27:35,390 --> 05:27:33,060

between you and your partner when you're

3588

05:27:37,788 --> 05:27:35,400

piloting this thing do you guys have any

3589

05:27:40,670 --> 05:27:37,798

safe words or any one team said that

3590

05:27:42,050 --> 05:27:40,680

their safe word was ice and so I didn't

3591

05:27:44,150 --> 05:27:42,060

know like I guess that's like hey it's

3592

05:27:45,470 --> 05:27:44,160

time to get off on Buckle make things

3593

05:27:46,730 --> 05:27:45,480

happen is there anything that you guys

3594

05:27:47,930 --> 05:27:46,740

have done to kind of prepare for

3595

05:27:48,948 --> 05:27:47,940

communication

3596

05:27:50,570 --> 05:27:48,958

um well we're just gonna be talking the

3597

05:27:52,550 --> 05:27:50,580

entire time non-stop

3598

05:27:54,350 --> 05:27:52,560

um but before we go every time ready

3599

05:27:57,170 --> 05:27:54,360

hand on

3600

05:27:59,390 --> 05:27:57,180

that's all I mean are you guys ready

3601
05:28:00,770 --> 05:27:59,400
here we are all right well I will let

3602
05:28:02,270 --> 05:28:00,780
them count you down in just a few

3603
05:28:03,708 --> 05:28:02,280
minutes and we appreciate you guys being

3604
05:28:05,090 --> 05:28:03,718
here next year you said you've been here

3605
05:28:07,070 --> 05:28:05,100
for about 10 years and make sure we'll

3606
05:28:08,750 --> 05:28:07,080
be 30. are you ready for it absolutely

3607
05:29:04,490 --> 05:28:08,760
all right good luck to you guys thank

3608
05:29:04,500 --> 05:31:55,850
there

3609
05:31:55,860 --> 05:32:11,868
foreign

3610
05:32:17,390 --> 05:32:14,628
hello and welcome back to NASA's live

3611
05:32:19,788 --> 05:32:17,400
coverage of the 2023 human exploration

3612
05:32:23,930 --> 05:32:19,798
Rover challenge we're back for another

3613
05:32:25,970 --> 05:32:23,940

segment uh we've seen a lot of uh teams

3614

05:32:27,650 --> 05:32:25,980

on the course today uh so we are here to

3615

05:32:29,930 --> 05:32:27,660

offer some more live commentary for you

3616

05:32:32,390 --> 05:32:29,940

I'm Alyssa Lee with the space launch

3617

05:32:34,430 --> 05:32:32,400

system uh Communications team and I'm

3618

05:32:36,590 --> 05:32:34,440

Lance Davis I'm with the communications

3619

05:32:38,990 --> 05:32:36,600

team at NASA's Marshall space flight

3620

05:32:40,788 --> 05:32:39,000

center that's right you know we have a

3621

05:32:42,110 --> 05:32:40,798

few more teams up today we've seen a lot

3622

05:32:43,490 --> 05:32:42,120

already go

3623

05:32:44,810 --> 05:32:43,500

um some are doing really awesome some

3624

05:32:46,070 --> 05:32:44,820

are having a little bit of trouble but

3625

05:32:48,410 --> 05:32:46,080

you know something we've noticed is

3626

05:32:49,910 --> 05:32:48,420

they're all so excited to be here and

3627

05:32:52,070 --> 05:32:49,920

you know this course is not just

3628

05:32:53,868 --> 05:32:52,080

bragging rights for them they can win

3629

05:32:56,270 --> 05:32:53,878

awards today

3630

05:32:58,850 --> 05:32:56,280

um they can win Awards in in such a

3631

05:33:00,230 --> 05:32:58,860

number of things not just what their

3632

05:33:01,550 --> 05:33:00,240

points are on the course can you tell us

3633

05:33:04,010 --> 05:33:01,560

a little bit more about some of the

3634

05:33:06,288 --> 05:33:04,020

awards yes well one of them that we've

3635

05:33:07,550 --> 05:33:06,298

heard about uh one of the categories

3636

05:33:10,128 --> 05:33:07,560

throughout the day and we've even

3637

05:33:13,250 --> 05:33:10,138

discussed it is the lightweight award

3638

05:33:15,948 --> 05:33:13,260

that's right a lightweight category and

3639

05:33:17,990 --> 05:33:15,958

uh weight and mass are very vital when

3640

05:33:21,110 --> 05:33:18,000

we think about space exploration and

3641

05:33:24,948 --> 05:33:21,120

spacecrafts that we launch into uh orbit

3642

05:33:28,190 --> 05:33:24,958

and this category basically uh they

3643

05:33:30,650 --> 05:33:28,200

compete on who has the lightest uh Rover

3644

05:33:32,390 --> 05:33:30,660

yeah yeah very important for rocket

3645

05:33:34,850 --> 05:33:32,400

launches there so so that's one of the

3646

05:33:37,190 --> 05:33:34,860

awards they offer we also have an

3647

05:33:38,990 --> 05:33:37,200

Ingenuity award we have a safety award

3648

05:33:41,690 --> 05:33:39,000

and those are really for the students

3649

05:33:43,610 --> 05:33:41,700

that are are solving these engineering

3650

05:33:45,948 --> 05:33:43,620

challenges here you know this is a new

3651

05:33:48,770 --> 05:33:45,958

course and so how are they being

3652

05:33:51,050 --> 05:33:48,780

Innovative in that uh so what other

3653

05:33:53,750 --> 05:33:51,060

Awards do we have oh yes we have a

3654

05:33:55,550 --> 05:33:53,760

social media award and we have stem

3655

05:33:58,128 --> 05:33:55,560

engagement uh two very important

3656

05:34:00,650 --> 05:33:58,138

categories that focus on the importance

3657

05:34:03,670 --> 05:34:00,660

of communicating about the Rover

3658

05:34:06,770 --> 05:34:03,680

challenge as well as stem education yeah

3659

05:34:08,390 --> 05:34:06,780

to this Artemis generation engaging this

3660

05:34:10,190 --> 05:34:08,400

Artemis generation these students that

3661

05:34:11,990 --> 05:34:10,200

building the river are the Artemis

3662

05:34:13,610 --> 05:34:12,000

generation themselves but they're also

3663

05:34:15,890 --> 05:34:13,620

inspiring the Artemis generation for

3664

05:34:18,170 --> 05:34:15,900

future you know we have may have future

3665

05:34:20,510 --> 05:34:18,180

astronauts here that's true that's very

3666

05:34:23,270 --> 05:34:20,520

true yeah so this year's award ceremony

3667

05:34:26,208 --> 05:34:23,280

will be later this evening I will stream

3668

05:34:29,030 --> 05:34:26,218

on Marshall's YouTube channel as well as

3669

05:34:30,830 --> 05:34:29,040

herc's Facebook page uh it will be here

3670

05:34:33,350 --> 05:34:30,840

at the U.S Space and Rocket Center that

3671

05:34:34,430 --> 05:34:33,360

we're at today so be sure to tune in for

3672

05:34:37,550 --> 05:34:34,440

that if you want to know who's winning

3673

05:34:39,470 --> 05:34:37,560

these Awards we do have a team at the

3674

05:34:41,330 --> 05:34:39,480

start line so we're going to pass to our

3675

05:34:43,250 --> 05:34:41,340

colleague Beth to talk a little bit more

3676

05:34:46,430 --> 05:34:43,260

to that team and figure out what they're

3677

05:34:49,310 --> 05:34:46,440

thinking for this uh course today

3678

05:34:51,230 --> 05:34:49,320

the Rhode Island School of Design they

3679

05:34:53,390 --> 05:34:51,240

just popped off they are going on the

3680

05:34:55,070 --> 05:34:53,400

course they learned a lot of lessons

3681

05:34:56,810 --> 05:34:55,080

yesterday from the course that kind of

3682

05:34:59,208 --> 05:34:56,820

got a Baseline and they were telling me

3683

05:35:01,250 --> 05:34:59,218

that they listened to some music from

3684

05:35:03,708 --> 05:35:01,260

Queen it was a lot of fun and we'll have

3685

05:35:05,750 --> 05:35:03,718

more Rovers coming up through but as we

3686

05:35:07,128 --> 05:35:05,760

follow them on their challenge Alyssa

3687

05:35:08,868 --> 05:35:07,138

and Lance it has been a beautiful day

3688

05:35:10,788 --> 05:35:08,878

out here love seeing all of these Rovers

3689

05:35:13,730 --> 05:35:10,798

and love seeing all of these teams just

3690

05:35:16,190 --> 05:35:13,740

really go and capture the the spirit of

3691

05:35:17,868 --> 05:35:16,200

this competition because they really

3692

05:35:19,368 --> 05:35:17,878

care about how everything's going but

3693

05:35:21,350 --> 05:35:19,378

what they really care about is learning

3694

05:35:23,448 --> 05:35:21,360

more so we we really appreciate all the

3695

05:35:25,850 --> 05:35:23,458

teams coming out today we have another

3696

05:35:28,310 --> 05:35:25,860

team coming up so as they get ready I'll

3697

05:35:30,650 --> 05:35:28,320

give them a chat and talk with them and

3698

05:35:33,770 --> 05:35:30,660

I'll throw it back to you guys

3699

05:35:35,270 --> 05:35:33,780

thanks Beth yeah that team is off on the

3700

05:35:37,730 --> 05:35:35,280

course we're excited to see how they do

3701

05:35:39,830 --> 05:35:37,740

today we have 48 teams that are

3702

05:35:41,330 --> 05:35:39,840

competing over 500 students can you tell

3703

05:35:42,410 --> 05:35:41,340

us Lance where they're from

3704

05:35:46,670 --> 05:35:42,420

well

3705

05:35:48,830 --> 05:35:46,680

uh 16 uh States uh here in America are

3706

05:35:51,110 --> 05:35:48,840

represented and we have eight Nations

3707

05:35:54,230 --> 05:35:51,120

internationally that are that are

3708

05:35:57,770 --> 05:35:54,240

represented uh those include uh Bolivia

3709

05:36:02,448 --> 05:35:57,780

Brazil Colombia we have

3710

05:36:05,270 --> 05:36:02,458

public we also have India we have Mexico

3711

05:36:07,010 --> 05:36:05,280

Peru and Singapore wow that's a lot of

3712

05:36:08,150 --> 05:36:07,020

Nations represented here we love seeing

3713

05:36:10,610 --> 05:36:08,160

International

3714

05:36:13,128 --> 05:36:10,620

from around the world to see this uh

3715

05:36:14,690 --> 05:36:13,138

competition this is a new course design

3716

05:36:16,250 --> 05:36:14,700

this year I think we mentioned that a

3717

05:36:18,110 --> 05:36:16,260

few times but one mention it again it's

3718

05:36:20,090 --> 05:36:18,120

very important to know that this is new

3719

05:36:22,190 --> 05:36:20,100

to everyone we are at the aviation

3720

05:36:24,770 --> 05:36:22,200

challenge this year at the U.S Space and

3721

05:36:27,650 --> 05:36:24,780

Rocket Center there's 10 obstacles that

3722

05:36:30,288 --> 05:36:27,660

the course has five tasks in those in

3723

05:36:32,930 --> 05:36:30,298

the course those tasks are liquid sample

3724

05:36:35,208 --> 05:36:32,940

retrievals so the team has to be able to

3725

05:36:36,890 --> 05:36:35,218

collect a liquid sample while still on

3726

05:36:39,410 --> 05:36:36,900

the Rover they cannot get off the Rover

3727

05:36:41,150 --> 05:36:39,420

and they cannot cross-contaminate the

3728

05:36:42,708 --> 05:36:41,160

liquid samples so that's a big challenge

3729

05:36:43,970 --> 05:36:42,718

for them this year they gain a lot of

3730

05:36:45,650 --> 05:36:43,980

points on getting through those

3731

05:36:48,288 --> 05:36:45,660

obstacles getting through those tasks

3732

05:36:51,288 --> 05:36:48,298

can you tell me about the pilots oh yes

3733

05:36:53,510 --> 05:36:51,298

so each team has

3734

05:36:55,730 --> 05:36:53,520

male and one female and

3735

05:36:58,730 --> 05:36:55,740

and probably here's a lot of excitement

3736

05:37:01,730 --> 05:36:58,740

going on behind us as the competition or

3737

05:37:04,610 --> 05:37:01,740

the challenge continues and they have to

3738

05:37:06,350 --> 05:37:04,620

compete uh in eight minutes

3739

05:37:07,850 --> 05:37:06,360

oh yeah you could definitely hear that

3740

05:37:11,570 --> 05:37:07,860

excitement from the teams over here

3741

05:37:13,690 --> 05:37:11,580

we've got a line of Rovers ready to go

3742

05:37:17,510 --> 05:37:13,700

um we're excited to see them go today

3743

05:37:19,128 --> 05:37:17,520

and we are we

3744

05:37:21,590 --> 05:37:19,138

have we're gonna talk to them a little

3745

05:37:23,750 --> 05:37:21,600

bit more so Beth will pass it to you

3746

05:37:26,690 --> 05:37:23,760

hey there I am here with the University

3747

05:37:28,368 --> 05:37:26,700

of DC we have some exciting people

3748

05:37:30,050 --> 05:37:28,378

behind us but we have some excited

3749

05:37:33,890 --> 05:37:30,060

Pilots right here can you tell me your

3750

05:37:36,230 --> 05:37:33,900

name Claudia hi Claudia and hi my name

3751

05:37:37,910 --> 05:37:36,240

is Ben all right Ben and Claudia you

3752

05:37:40,190 --> 05:37:37,920

guys went through on the course

3753

05:37:42,350 --> 05:37:40,200

yesterday learned a few things what are

3754

05:37:44,868 --> 05:37:42,360

you guys doing different today and we

3755

05:37:47,570 --> 05:37:44,878

would try some obstacles actually maybe

3756

05:37:49,670 --> 05:37:47,580

three and now that we have the steering

3757

05:37:52,070 --> 05:37:49,680

working better so that will help us a

3758

05:37:54,830 --> 05:37:52,080

lot and also we have a new chain over

3759

05:37:56,690 --> 05:37:54,840

there so that will help a lot yeah the

3760

05:37:58,430 --> 05:37:56,700

obstacles just are on the course people

3761

05:38:00,530 --> 05:37:58,440

we have obstacles that these students

3762

05:38:02,030 --> 05:38:00,540

are having to overcome and engineer

3763

05:38:03,770 --> 05:38:02,040

every single day so what's something

3764

05:38:06,230 --> 05:38:03,780

that you really had to work on last

3765

05:38:07,430 --> 05:38:06,240

night yeah so yesterday like uh Claudia

3766

05:38:08,390 --> 05:38:07,440

may have said whenever we were going

3767

05:38:09,948 --> 05:38:08,400

through the race we were making great

3768

05:38:11,390 --> 05:38:09,958

time and then our chain broke it was a

3769

05:38:13,310 --> 05:38:11,400

pretty old chain so last night we went

3770

05:38:14,868 --> 05:38:13,320

and got a heavy duty chain installed it

3771

05:38:16,490 --> 05:38:14,878

this morning it's ready to go another

3772

05:38:17,690 --> 05:38:16,500

thing we fixed is our steering kept

3773

05:38:19,070 --> 05:38:17,700

buckling inward so if you see there's

3774

05:38:20,868 --> 05:38:19,080

that little crossbar that connects our

3775

05:38:22,368 --> 05:38:20,878

two steering arms that really allows us

3776

05:38:23,990 --> 05:38:22,378

to keep our Wheels straight instead of

3777

05:38:25,430 --> 05:38:24,000

having them Buckle uh so that was that

3778

05:38:27,230 --> 05:38:25,440

was a pretty crucial fix and we think

3779

05:38:28,610 --> 05:38:27,240

that we have a full four-wheel drive

3780

05:38:29,690 --> 05:38:28,620

system today our steering is going to be

3781

05:38:30,830 --> 05:38:29,700

great and we're not going to break our

3782

05:38:32,868 --> 05:38:30,840

chain so we should make pretty good time

3783

05:38:35,150 --> 05:38:32,878

all right I love it do you guys have any

3784

05:38:37,250 --> 05:38:35,160

Traditions or anything that you've done

3785

05:38:39,530 --> 05:38:37,260

Traditions I mean so this is this

3786

05:38:40,970 --> 05:38:39,540

Rover's a like we this Rover competition

3787

05:38:42,530 --> 05:38:40,980

we have not come here for a few years

3788

05:38:43,670 --> 05:38:42,540

obviously but

3789

05:38:45,230 --> 05:38:43,680

um you know we have a pretty small team

3790

05:38:46,730 --> 05:38:45,240

so not many Traditions yet but we're

3791

05:38:48,050 --> 05:38:46,740

hoping to have something that's very

3792

05:38:49,510 --> 05:38:48,060

solid in the future for people to move

3793

05:38:51,890 --> 05:38:49,520

off of and get inspired from so

3794

05:38:53,628 --> 05:38:51,900

fantastic next year will be year 30. so

3795

05:38:55,250 --> 05:38:53,638

we hope to see you guys back here we'll

3796

05:38:57,590 --> 05:38:55,260

give you the countdown in just a few

3797

05:38:59,628 --> 05:38:57,600

minutes and until then you guys have the

3798

05:39:02,150 --> 05:38:59,638

best of luck all right thank you so much

3799

05:39:04,010 --> 05:39:02,160

back to you Alyssa and Lance

3800

05:39:05,510 --> 05:39:04,020

thanks Beth we have a representative

3801
05:39:07,070 --> 05:39:05,520
from the University of District Columbia

3802
05:39:09,350 --> 05:39:07,080
here can you tell us your name and your

3803
05:39:13,910 --> 05:39:09,360
role in the team uh hi everyone my name

3804
05:39:17,810 --> 05:39:16,310
awesome glad to have you here so can you

3805
05:39:20,570 --> 05:39:17,820
talk to us a little bit about the

3806
05:39:23,208 --> 05:39:20,580
strategy of your team with your Rover so

3807
05:39:25,730 --> 05:39:23,218
recently we had some difficulty with our

3808
05:39:28,730 --> 05:39:25,740
robot so our strategy today is to go

3809
05:39:29,930 --> 05:39:28,740
over the easier um the easier closest

3810
05:39:32,090 --> 05:39:29,940
um obstacles

3811
05:39:33,470 --> 05:39:32,100
um unfortunately we won't do any of the

3812
05:39:35,208 --> 05:39:33,480
tasks to

3813
05:39:36,830 --> 05:39:35,218

um the task because

3814

05:39:39,590 --> 05:39:36,840

um our tattoo kind of had some

3815

05:39:41,150 --> 05:39:39,600

difficulty it fell apart so it would be

3816

05:39:42,110 --> 05:39:41,160

next year for that but this time here

3817

05:39:43,550 --> 05:39:42,120

the guy's gonna go over the east

3818

05:39:45,410 --> 05:39:43,560

yourself

3819

05:39:47,810 --> 05:39:45,420

yeah well can you talk a little bit

3820

05:39:49,430 --> 05:39:47,820

about what you all have learned from

3821

05:39:51,770 --> 05:39:49,440

some of the challenges and difficulties

3822

05:39:52,550 --> 05:39:51,780

you've had uh over the last couple of

3823

05:39:57,170 --> 05:39:52,560

days

3824

05:39:58,788 --> 05:39:57,180

like the steering so we relate to

3825

05:40:01,250 --> 05:39:58,798

changes here and this theorem that we

3826
05:40:03,050 --> 05:40:01,260
have right now is not the Mysterion we

3827
05:40:04,670 --> 05:40:03,060
decided to go to with the rack and

3828
05:40:06,590 --> 05:40:04,680
pinion next year which is the easiest

3829
05:40:08,390 --> 05:40:06,600
thing just turn it what we have now is

3830
05:40:10,910 --> 05:40:08,400
just shifting two handles yeah that's

3831
05:40:12,590 --> 05:40:10,920
not the best they're in but that and

3832
05:40:14,810 --> 05:40:12,600
also the chain

3833
05:40:16,430 --> 05:40:14,820
um will not do not use chain drive next

3834
05:40:18,288 --> 05:40:16,440
time we will probably switch to a belt

3835
05:40:19,850 --> 05:40:18,298
drive yeah yesterday we have some

3836
05:40:22,310 --> 05:40:19,860
difficulty with the chain falling off

3837
05:40:23,448 --> 05:40:22,320
the coat on on the on the course and we

3838
05:40:24,530 --> 05:40:23,458

would like to change after belt drive

3839

05:40:27,470 --> 05:40:24,540

next here

3840

05:40:30,110 --> 05:40:27,480

oh man I hear a lot of morale and India

3841

05:40:31,970 --> 05:40:30,120

from your team so uh tell us about the

3842

05:40:33,708 --> 05:40:31,980

morale and how you all have just come

3843

05:40:34,970 --> 05:40:33,718

together to get here

3844

05:40:36,708 --> 05:40:34,980

um well

3845

05:40:38,208 --> 05:40:36,718

a couple weeks ago we've been

3846

05:40:40,010 --> 05:40:38,218

discouraged because some some of the

3847

05:40:43,010 --> 05:40:40,020

stuff that was back happening back in DC

3848

05:40:45,410 --> 05:40:43,020

but you know we picked up and we

3849

05:40:46,670 --> 05:40:45,420

um did what we could and that's excited

3850

05:40:48,890 --> 05:40:46,680

to be done here to get the experience

3851

05:40:50,270 --> 05:40:48,900

for the first time after colbit I'm just

3852

05:40:52,310 --> 05:40:50,280

excited down here learn from the

3853

05:40:54,590 --> 05:40:52,320

different teams on it what they did and

3854

05:40:56,330 --> 05:40:54,600

continue to grow as a team definitely

3855

05:40:58,970 --> 05:40:56,340

definitely is there anybody you want to

3856

05:41:01,010 --> 05:40:58,980

thank or recognize uh that has helped

3857

05:41:02,750 --> 05:41:01,020

you get to this point yeah I want to

3858

05:41:04,850 --> 05:41:02,760

thank the leading fabricator in our

3859

05:41:07,070 --> 05:41:04,860

group there Benjamin Weaver and also

3860

05:41:09,530 --> 05:41:07,080

boss Aragon from back in the UDC he did

3861

05:41:10,250 --> 05:41:09,540

a lot of work he um you know he's very

3862

05:41:12,288 --> 05:41:10,260

um

3863

05:41:13,430 --> 05:41:12,298

he has very much details on the Rover

3864

05:41:14,810 --> 05:41:13,440

he's been

3865

05:41:16,310 --> 05:41:14,820

he's not been here before

3866

05:41:17,930 --> 05:41:16,320

but previously enough

3867

05:41:20,030 --> 05:41:17,940

and he has a lot of you know information

3868

05:41:21,770 --> 05:41:20,040

on how to get better and stuff so thank

3869

05:41:23,690 --> 05:41:21,780

him and then the faculty and staff back

3870

05:41:26,090 --> 05:41:23,700

home at UDC for supplying us with the

3871

05:41:27,770 --> 05:41:26,100

supplies that we need well look man we

3872

05:41:29,810 --> 05:41:27,780

appreciate you talking with us and we

3873

05:41:31,670 --> 05:41:29,820

wish you and your team all the best for

3874

05:41:33,470 --> 05:41:31,680

the remainder today

3875

05:41:36,650 --> 05:41:33,480

thank you I do have to ask one more

3876

05:41:40,010 --> 05:41:38,448

are you very excited right now

3877

05:41:41,330 --> 05:41:40,020

right now you know we overcame some of

3878

05:41:43,190 --> 05:41:41,340

the problems we had yesterday and

3879

05:41:44,990 --> 05:41:43,200

feeling we could do better today so I'm

3880

05:41:46,550 --> 05:41:45,000

very excited for my team we're excited

3881

05:41:49,788 --> 05:41:46,560

to watch them it looks like your team is

3882

05:41:51,650 --> 05:41:49,798

on the course right now so go watch your

3883

05:41:52,910 --> 05:41:51,660

team cheer them on thank you so much for

3884

05:41:55,310 --> 05:41:52,920

joining us you guys have a nice day

3885

05:41:56,868 --> 05:41:55,320

thank you all right we're gonna take a

3886

05:42:19,368 --> 05:41:56,878

little break and watch the course The

3887

05:42:19,378 --> 05:43:10,270

foreign

3888

05:43:14,990 --> 05:43:13,190

we are here with another team right here

3889

05:43:17,270 --> 05:43:15,000

at the starting line everybody is very

3890

05:43:19,850 --> 05:43:17,280

exciting they have a cheer squad back

3891

05:43:24,288 --> 05:43:21,948

absolutely they are bringing the party

3892

05:43:25,788 --> 05:43:24,298

can you talk to me a little bit about uh

3893

05:43:27,590 --> 05:43:25,798

what you guys are doing on the course

3894

05:43:32,628 --> 05:43:27,600

today

3895

05:43:35,150 --> 05:43:32,638

in the course we're improving upon what

3896

05:43:36,708 --> 05:43:35,160

we had last time we came in with a

3897

05:43:38,690 --> 05:43:36,718

different transmission we swapped it out

3898

05:43:40,910 --> 05:43:38,700

we were very confident in our design and

3899

05:43:44,150 --> 05:43:40,920

that it was capable of much more than

3900

05:43:47,208 --> 05:43:44,160

what we got yesterday so we spent all

3901

05:43:49,850 --> 05:43:47,218

night under the rain under a tent in a

3902

05:43:52,490 --> 05:43:49,860

makeshift uh Workshop that we made in

3903

05:43:55,128 --> 05:43:52,500

the parking of a hotel and we worked all

3904

05:43:56,750 --> 05:43:55,138

night oh my goodness yeah I know people

3905

05:43:58,070 --> 05:43:56,760

are thinking the obstacles are just

3906

05:44:00,708 --> 05:43:58,080

right here but you guys are having to

3907

05:44:02,150 --> 05:44:00,718

overcome so much right now and you have

3908

05:44:04,190 --> 05:44:02,160

so many people is there anyone that

3909

05:44:06,770 --> 05:44:04,200

you'd like to think uh to help get you

3910

05:44:08,288 --> 05:44:06,780

guys here to thank uh to get us here

3911

05:44:10,788 --> 05:44:08,298

yeah sponsors

3912

05:44:13,368 --> 05:44:10,798

I absolutely would like to thank all of

3913

05:44:16,250 --> 05:44:13,378

the sponsors that have put their effort

3914

05:44:18,530 --> 05:44:16,260

and their trust in us we wear all the

3915

05:44:21,470 --> 05:44:18,540

love that they give to us in our back

3916

05:44:22,910 --> 05:44:21,480

especially bank reservas which is our

3917

05:44:25,448 --> 05:44:22,920

special

3918

05:44:28,190 --> 05:44:25,458

um uh sponsor the main one and

3919

05:44:28,220 --> 05:44:28,200

copreservas that is here with us today

3920

05:44:31,190 --> 05:44:28,230

[Music]

3921

05:44:33,350 --> 05:44:31,200

[Applause]

3922

05:44:35,510 --> 05:44:33,360

fantastic well I wish you guys all the

3923

05:44:36,708 --> 05:44:35,520

best of luck I can I get it just so one

3924

05:44:41,990 --> 05:44:36,718

more woohoo

3925

05:44:44,990 --> 05:44:43,730

we're gonna wish them the best of luck

3926

05:44:48,170 --> 05:44:45,000

and we're gonna throw it back to you

3927

05:44:52,730 --> 05:44:50,628

hello we have a uh one of our high

3928

05:44:54,350 --> 05:44:52,740

school teams here they uh already did

3929

05:44:55,670 --> 05:44:54,360

their run for today so can you tell me

3930

05:44:58,010 --> 05:44:55,680

what your school name is and what your

3931

05:44:59,990 --> 05:44:58,020

name is uh I am Anil Pradhan I'm the

3932

05:45:02,830 --> 05:45:00,000

advisor of young Tinker Education

3933

05:45:08,628 --> 05:45:06,530

and I'm the design lead for this team

3934

05:45:10,250 --> 05:45:08,638

I'm akshara and I'm the student safety

3935

05:45:12,170 --> 05:45:10,260

officer of this team

3936

05:45:14,330 --> 05:45:12,180

well we're so glad to have you with us

3937

05:45:16,730 --> 05:45:14,340

today so you all have already completed

3938

05:45:20,750 --> 05:45:16,740

the course so it's one of you tell us

3939

05:45:23,990 --> 05:45:22,788

it was quite exciting oh sorry it was

3940

05:45:26,330 --> 05:45:24,000

quite exciting

3941

05:45:28,190 --> 05:45:26,340

um doing because we had a lot of trouble

3942

05:45:29,810 --> 05:45:28,200

in shipment you know the Perils of

3943

05:45:31,548 --> 05:45:29,820

international shipment and are fully

3944

05:45:33,530 --> 05:45:31,558

broke so we had to devise like with an

3945

05:45:35,750 --> 05:45:33,540

improvised solution for that so we just

3946

05:45:37,190 --> 05:45:35,760

got this like um we got this improv

3947

05:45:39,410 --> 05:45:37,200

fully and everything and we used that

3948

05:45:41,448 --> 05:45:39,420

and it worked it worked better than we

3949

05:45:43,970 --> 05:45:41,458

thought it would so we were we were

3950

05:45:45,830 --> 05:45:43,980

surprising yeah and tell us about your

3951

05:45:49,128 --> 05:45:45,840

strategy like uh give us more detail

3952

05:45:50,750 --> 05:45:49,138

about your approach so um the second we

3953

05:45:52,368 --> 05:45:50,760

saw that our employer broken we knew

3954

05:45:54,410 --> 05:45:52,378

that our Rover couldn't be our main

3955

05:45:55,970 --> 05:45:54,420

focus anymore unfortunately so we just

3956

05:45:57,890 --> 05:45:55,980

moved all our Focus towards the castle

3957

05:45:59,990 --> 05:45:57,900

and that was the main goal is to

3958

05:46:02,570 --> 05:46:00,000

complete as many tasks as possible yeah

3959

05:46:05,628 --> 05:46:02,580

and you have come a long way to be with

3960

05:46:08,868 --> 05:46:05,638

this and talk about your team like uh

3961

05:46:14,030 --> 05:46:11,750

it's been it's been really it's the the

3962

05:46:16,010 --> 05:46:14,040

atmosphere in our team has been insane

3963

05:46:20,208 --> 05:46:16,020

um we're all very very excited

3964

05:46:24,650 --> 05:46:20,218

um especially I guess uh om uh Basu and

3965

05:46:27,830 --> 05:46:24,660

panksha so um from an orphanage in rural

3966

05:46:29,990 --> 05:46:27,840

India and Basu passes his dad is a daily

3967

05:46:31,128 --> 05:46:30,000

labor in like party Fields

3968

05:46:32,628 --> 05:46:31,138

um so the fact that we could bring them

3969

05:46:33,890 --> 05:46:32,638

here the fact that we could teach them

3970

05:46:35,750 --> 05:46:33,900

everything and the fact that they

3971

05:46:39,350 --> 05:46:35,760

contributed so much to the team it's

3972

05:46:42,110 --> 05:46:39,360

it's amazing yeah we're all very happy

3973

05:46:43,548 --> 05:46:42,120

very good very good well uh one of the

3974

05:46:46,368 --> 05:46:43,558

things that's important about this

3975

05:46:47,930 --> 05:46:46,378

competition is promoting stem uh how

3976

05:46:50,448 --> 05:46:47,940

have you all done that

3977

05:46:52,490 --> 05:46:50,458

so we we went out to many many schools I

3978

05:46:54,530 --> 05:46:52,500

think we've crushed like over well like

3979

05:46:56,750 --> 05:46:54,540

three thousand five thousand kids yeah

3980

05:46:59,150 --> 05:46:56,760

five thousand kids in many many schools

3981

05:47:01,490 --> 05:46:59,160

across rural and urban India

3982

05:47:03,110 --> 05:47:01,500

um we also have a very very strong

3983

05:47:06,110 --> 05:47:03,120

social media campaign like in our

3984

05:47:07,670 --> 05:47:06,120

country if you type NASA

3985

05:47:10,910 --> 05:47:07,680

yeah

3986

05:47:13,010 --> 05:47:10,920

so I think our appreciation has been

3987

05:47:14,930 --> 05:47:13,020

really good we've inspired a lot of

3988

05:47:17,330 --> 05:47:14,940

people yeah well that tells me you have

3989

05:47:19,368 --> 05:47:17,340

a lot of support behind you so uh is

3990

05:47:22,910 --> 05:47:19,378

there anyone or any groups you want to

3991

05:47:27,350 --> 05:47:25,670

so there is a lot of companies and

3992

05:47:30,288 --> 05:47:27,360

corporates that actually sponsor this

3993

05:47:31,730 --> 05:47:30,298

team because you know these students are

3994

05:47:34,548 --> 05:47:31,740

from a few of the students are from

3995

05:47:37,190 --> 05:47:34,558

marginal marginalized communities in

3996

05:47:39,350 --> 05:47:37,200

India in supporting those students are

3997

05:47:40,970 --> 05:47:39,360

really really really a good thing and a

3998

05:47:43,490 --> 05:47:40,980

lot of companies supported us and thank

3999

05:47:45,708 --> 05:47:43,500

you so much to all the supporters who

4000

05:47:48,048 --> 05:47:45,718

helped us get this thing done so we are

4001
05:47:51,048 --> 05:47:48,058
from like it took around 14 hours for us

4002
05:47:53,750 --> 05:47:51,058
to came come here we made the Rover

4003
05:47:57,490 --> 05:47:53,760
manufactured it we transported it and we

4004
05:48:00,230 --> 05:47:57,500
competed here this is the best part that

4005
05:48:01,070 --> 05:48:00,240
so these are the people who surrendered

4006
05:48:03,890 --> 05:48:01,080
us so

4007
05:48:05,208 --> 05:48:03,900
thank you so much everyone speaking of

4008
05:48:06,650 --> 05:48:05,218
your challenges that you've gone through

4009
05:48:07,970 --> 05:48:06,660
can you talk a little bit about what

4010
05:48:12,230 --> 05:48:07,980
being a high school team in this

4011
05:48:16,150 --> 05:48:12,240
competition is like uh so uh if you talk

4012
05:48:18,890 --> 05:48:16,160
about India so a lot of not a lot of uh

4013
05:48:20,750 --> 05:48:18,900

people or students in high school knew

4014

05:48:22,490 --> 05:48:20,760

about this kind of challenges they

4015

05:48:25,610 --> 05:48:22,500

didn't know how to manufacture it over

4016

05:48:27,830 --> 05:48:25,620

what Rover is all about so we at Young

4017

05:48:31,448 --> 05:48:27,840

Tinker made sure that students learned

4018

05:48:33,590 --> 05:48:31,458

tinkering and this is how we we

4019

05:48:36,350 --> 05:48:33,600

selected six students from different

4020

05:48:38,030 --> 05:48:36,360

parts of India so these six students are

4021

05:48:40,850 --> 05:48:38,040

from different parts of India like it's

4022

05:48:43,128 --> 05:48:40,860

like one thousand kilometers from each

4023

05:48:45,890 --> 05:48:43,138

other it's around 600 700 miles from

4024

05:48:49,190 --> 05:48:45,900

each other so these guys came together

4025

05:48:50,890 --> 05:48:49,200

on a online mode we taught them

4026

05:48:53,270 --> 05:48:50,900

everything then they came together

4027

05:48:55,730 --> 05:48:53,280

manufactured everything and now we are

4028

05:48:58,190 --> 05:48:55,740

here competing with the world

4029

05:49:01,070 --> 05:48:58,200

I guess I just have to ask this question

4030

05:49:03,830 --> 05:49:01,080

uh do you have any words of wisdom or

4031

05:49:06,470 --> 05:49:03,840

advice for any teams or future teams

4032

05:49:09,948 --> 05:49:06,480

that may be considering this competition

4033

05:49:12,110 --> 05:49:09,958

uh so so uh uh there's a lot of

4034

05:49:13,670 --> 05:49:12,120

challenges that we faced because we have

4035

05:49:15,948 --> 05:49:13,680

this kind of team the background of the

4036

05:49:19,250 --> 05:49:15,958

students and a lot of things are there

4037

05:49:21,530 --> 05:49:19,260

but one thing that is there in the team

4038

05:49:23,570 --> 05:49:21,540

is the unity and the strength it took us

4039

05:49:26,150 --> 05:49:23,580

three months to complete the entire

4040

05:49:28,788 --> 05:49:26,160

thing but we are there preparing for

4041

05:49:32,570 --> 05:49:28,798

these three months from a long time

4042

05:49:35,150 --> 05:49:32,580

and uh when we did it we're so happy and

4043

05:49:38,330 --> 05:49:35,160

I don't know if we'll win a award today

4044

05:49:40,670 --> 05:49:38,340

or not but I think we have already won

4045

05:49:43,310 --> 05:49:40,680

by coming here and bringing the students

4046

05:49:45,170 --> 05:49:43,320

here that's the most important thing and

4047

05:49:48,230 --> 05:49:45,180

thank you NASA for giving this

4048

05:49:50,208 --> 05:49:48,240

opportunity and yesterday I would like

4049

05:49:53,030 --> 05:49:50,218

to thank the NASA team who actually

4050

05:49:55,368 --> 05:49:53,040

helped us fix the problem and we can see

4051
05:49:58,310 --> 05:49:55,378
today our role running on the course so

4052
05:50:02,750 --> 05:50:00,288
um also just um we're all here from like

4053
05:50:04,788 --> 05:50:02,760
different backgrounds and I think no

4054
05:50:06,470 --> 05:50:04,798
matter who you are where you are

4055
05:50:09,048 --> 05:50:06,480
um you can you can make it you can do

4056
05:50:10,010 --> 05:50:09,058
stem don't I mean if even if math looks

4057
05:50:11,690 --> 05:50:10,020
scary

4058
05:50:14,150 --> 05:50:11,700
um I swear it's not no matter what your

4059
05:50:16,788 --> 05:50:14,160
professor or any student tells you and

4060
05:50:19,368 --> 05:50:16,798
especially if you're a woman uh um if if

4061
05:50:20,750 --> 05:50:19,378
people tell you uh that you're here on a

4062
05:50:23,030 --> 05:50:20,760
diversity quote or anything like that

4063
05:50:25,368 --> 05:50:23,040

that is not true you are talented and

4064

05:50:27,530 --> 05:50:25,378

you belong where you are so just keep

4065

05:50:30,110 --> 05:50:27,540

going and everyone's proud of you and

4066

05:50:31,730 --> 05:50:30,120

you can do anything you want well thank

4067

05:50:33,530 --> 05:50:31,740

you all so much for joining us we loved

4068

05:50:35,448 --> 05:50:33,540

hearing your story uh we hope to see you

4069

05:50:36,708 --> 05:50:35,458

here next year as well absolutely thank

4070

05:50:38,330 --> 05:50:36,718

you guys so much for joining us in the

4071

05:50:39,830 --> 05:50:38,340

booth and we actually want to be ready

4072

05:50:42,170 --> 05:50:39,840

at this

4073

05:50:43,970 --> 05:50:42,180

tour colleague Beth

4074

05:50:45,650 --> 05:50:43,980

hey there Alyssa we are here we have

4075

05:50:46,850 --> 05:50:45,660

fine College everybody you see they're

4076
05:50:48,590 --> 05:50:46,860
still trying to make some adjustments

4077
05:50:50,628 --> 05:50:48,600
this is their first year here on the

4078
05:50:53,030 --> 05:50:50,638
course and they this is their first time

4079
05:50:54,470 --> 05:50:53,040
to uh man let's not get the light

4080
05:50:56,390 --> 05:50:54,480
featherweight award otherwise somebody

4081
05:50:57,650 --> 05:50:56,400
is very strong they ate their Wheaties

4082
05:51:00,530 --> 05:50:57,660
this morning

4083
05:51:02,030 --> 05:51:00,540
um so can you tell me about uh how

4084
05:51:03,170 --> 05:51:02,040
you're trying to planning to tackle this

4085
05:51:05,750 --> 05:51:03,180
course

4086
05:51:07,788 --> 05:51:05,760
all right so we really have like a good

4087
05:51:10,670 --> 05:51:07,798
tassel so maybe we're gonna get points

4088
05:51:13,190 --> 05:51:10,680

with a tassel and then we're gonna

4089

05:51:15,410 --> 05:51:13,200

try to do our best but we have to bypass

4090

05:51:18,350 --> 05:51:15,420

one of the obstacles basically yeah yeah

4091

05:51:19,788 --> 05:51:18,360

and so what is your name I'm Joe Sauer

4092

05:51:23,208 --> 05:51:19,798

and what

4093

05:51:24,708 --> 05:51:23,218

um what is your major uh so I'm a

4094

05:51:27,110 --> 05:51:24,718

mechatronic engineer

4095

05:51:28,670 --> 05:51:27,120

uh so that's kind of like they took

4096

05:51:31,310 --> 05:51:28,680

mechanical engineering and they added

4097

05:51:33,170 --> 05:51:31,320

electrical programming Robotics and

4098

05:51:34,250 --> 05:51:33,180

combined it all together yeah and you

4099

05:51:36,410 --> 05:51:34,260

guys were talking to me a little bit

4100

05:51:38,390 --> 05:51:36,420

about having drivetrain issues yesterday

4101
05:51:40,670 --> 05:51:38,400
and some steering issues but you got all

4102
05:51:43,310 --> 05:51:40,680
of that fixed yeah so we rolled up to

4103
05:51:44,510 --> 05:51:43,320
the start line yesterday had some issues

4104
05:51:46,730 --> 05:51:44,520
um as you see they're still playing with

4105
05:51:48,288 --> 05:51:46,740
it right now uh but we think we got it

4106
05:51:49,670 --> 05:51:48,298
started and you know we're gonna start

4107
05:51:51,350 --> 05:51:49,680
strong and hopefully we make it through

4108
05:51:52,970 --> 05:51:51,360
yeah you know we've heard other teams

4109
05:51:54,590 --> 05:51:52,980
say we just want to finish it we've had

4110
05:51:56,930 --> 05:51:54,600
other team say we're just ready to learn

4111
05:51:59,150 --> 05:51:56,940
and can you tell me your name oh my name

4112
05:52:02,208 --> 05:51:59,160
is Paula all right sorry I'm sorry I did

4113
05:52:05,448 --> 05:52:03,708

we are very excited for both of our

4114

05:52:07,128 --> 05:52:05,458

Pilots are you guys ready to go all

4115

05:52:09,110 --> 05:52:07,138

right let's bump it out all right good

4116

05:52:12,708 --> 05:52:09,120

luck good luck all right we'll toss it

4117

05:52:16,730 --> 05:52:14,810

all right thank you Beth we have another

4118

05:52:18,288 --> 05:52:16,740

team here another High School team we

4119

05:52:20,030 --> 05:52:18,298

love seeing these high school teams here

4120

05:52:21,830 --> 05:52:20,040

you know it's a lot of hard work for you

4121

05:52:23,448 --> 05:52:21,840

guys so can you tell me your name and

4122

05:52:25,548 --> 05:52:23,458

what your school name is uh good

4123

05:52:27,470 --> 05:52:25,558

afternoon my name is Jacoby white and

4124

05:52:30,170 --> 05:52:27,480

I'm coming from McKinley technology High

4125

05:52:32,208 --> 05:52:30,180

School located in Washington DC

4126
05:52:35,150 --> 05:52:32,218
and I'm gorgeous Dixon also coming from

4127
05:52:37,250 --> 05:52:35,160
Washington DC same school same name same

4128
05:52:38,030 --> 05:52:37,260
game nice and what are were your roles

4129
05:52:41,030 --> 05:52:38,040
in the

4130
05:52:44,930 --> 05:52:41,040
uh Morrow was lead designer

4131
05:52:48,048 --> 05:52:44,940
and I was basically in charge of making

4132
05:52:50,690 --> 05:52:48,058
sure we had a mock-up and a final design

4133
05:52:53,930 --> 05:52:50,700
on onshape which is a CAD program that

4134
05:52:57,770 --> 05:52:53,940
we use to design the whole river

4135
05:52:58,970 --> 05:52:57,780
and Miley my um role is lead design I

4136
05:53:02,510 --> 05:52:58,980
mean not lead design I'm sorry team

4137
05:53:03,708 --> 05:53:02,520
leader and with that I my role was to

4138
05:53:05,330 --> 05:53:03,718

essentially make sure that everyone was

4139

05:53:06,948 --> 05:53:05,340

getting everything they needed done when

4140

05:53:08,750 --> 05:53:06,958

it came to all of the components making

4141

05:53:10,670 --> 05:53:08,760

sure that we ordered everything that we

4142

05:53:13,610 --> 05:53:10,680

needed making sure that

4143

05:53:14,930 --> 05:53:13,620

scheduling was on time and just overall

4144

05:53:17,270 --> 05:53:14,940

making sure that we had something that

4145

05:53:19,010 --> 05:53:17,280

we could send Johnsville

4146

05:53:20,990 --> 05:53:19,020

so give us an idea of what you're

4147

05:53:23,510 --> 05:53:21,000

feeling right now this is day two of the

4148

05:53:25,910 --> 05:53:23,520

competition your team is uh geared up to

4149

05:53:27,708 --> 05:53:25,920

go uh talk about uh morale from your

4150

05:53:30,170 --> 05:53:27,718

team leader perspective

4151
05:53:31,010 --> 05:53:30,180
definitely consider that we came a long

4152
05:53:33,708 --> 05:53:31,020
way

4153
05:53:38,750 --> 05:53:37,070
starting off in the early year we were a

4154
05:53:40,788 --> 05:53:38,760
little we were a little bumpy because

4155
05:53:43,490 --> 05:53:40,798
teams

4156
05:53:45,288 --> 05:53:43,500
our team itself either it grew in size

4157
05:53:47,090 --> 05:53:45,298
or shrunk in size multiple different

4158
05:53:49,190 --> 05:53:47,100
times around but

4159
05:53:50,448 --> 05:53:49,200
the team we have now is a strong team s

4160
05:53:52,430 --> 05:53:50,458
all the team we're all really hard

4161
05:53:54,470 --> 05:53:52,440
workers very excited about being here

4162
05:53:56,628 --> 05:53:54,480
very excited about being able to

4163
05:53:59,570 --> 05:53:56,638

Traverse the course on both days even if

4164

05:54:01,310 --> 05:53:59,580

on day one we did have some we did have

4165

05:54:03,410 --> 05:54:01,320

a little incident that didn't mess us up

4166

05:54:05,868 --> 05:54:03,420

however on day two we did find a way to

4167

05:54:08,390 --> 05:54:05,878

manage and come back so tell us a little

4168

05:54:10,490 --> 05:54:08,400

bit about the about your strategy today

4169

05:54:12,830 --> 05:54:10,500

with your comeback

4170

05:54:16,010 --> 05:54:12,840

well one of the major setbacks that

4171

05:54:18,590 --> 05:54:16,020

messed us up yesterday afternoon had to

4172

05:54:22,010 --> 05:54:18,600

be about

4173

05:54:23,270 --> 05:54:22,020

our wheel hub and how the wheel

4174

05:54:25,070 --> 05:54:23,280

suspension

4175

05:54:27,650 --> 05:54:25,080

broke in the middle of the course around

4176

05:54:32,270 --> 05:54:27,660

obstacle number five or six

4177

05:54:35,510 --> 05:54:32,280

while our rear driver Jamal was pushing

4178

05:54:37,368 --> 05:54:35,520

the car due to our chain messing up

4179

05:54:38,750 --> 05:54:37,378

how we managed to fix that early this

4180

05:54:41,030 --> 05:54:38,760

morning we came in got that thing

4181

05:54:43,430 --> 05:54:41,040

re-welded on both sides just to reinsure

4182

05:54:46,208 --> 05:54:43,440

that we wouldn't have to go through that

4183

05:54:48,948 --> 05:54:46,218

issue again we made sure that the chain

4184

05:54:50,930 --> 05:54:48,958

would be able to fasten on as best that

4185

05:54:53,510 --> 05:54:50,940

we could get it even though

4186

05:54:56,150 --> 05:54:53,520

we saw again today that

4187

05:54:57,350 --> 05:54:56,160

it came off in some cases however we

4188

05:54:58,730 --> 05:54:57,360

still managed to Traverse through the

4189

05:55:00,170 --> 05:54:58,740

course without any of the pieces

4190

05:55:01,730 --> 05:55:00,180

breaking which is great I'm really proud

4191

05:55:04,250 --> 05:55:01,740

of our team for that and I believe you

4192

05:55:05,628 --> 05:55:04,260

have the wheel with you Gene the part of

4193

05:55:07,430 --> 05:55:05,638

the wheel correct

4194

05:55:09,170 --> 05:55:07,440

this is a

4195

05:55:11,330 --> 05:55:09,180

um demo version of the wheel this is

4196

05:55:13,610 --> 05:55:11,340

where we started off from essentially

4197

05:55:15,410 --> 05:55:13,620

how this design works is it's multiple

4198

05:55:18,770 --> 05:55:15,420

different layers of cardboard

4199

05:55:22,368 --> 05:55:18,780

with each side having like trades to be

4200

05:55:24,070 --> 05:55:22,378

able to hold a type of TPU tread we

4201
05:55:27,410 --> 05:55:24,080
decided to scrap the cardboard design

4202
05:55:30,410 --> 05:55:27,420
solely due to either a lack of material

4203
05:55:33,170 --> 05:55:30,420
and we really didn't have like a way to

4204
05:55:35,570 --> 05:55:33,180
ensure that these weren't going to take

4205
05:55:36,948 --> 05:55:35,580
any like water or mud damage since of

4206
05:55:39,890 --> 05:55:36,958
course it's cardboard it's paper and

4207
05:55:42,708 --> 05:55:39,900
things like that so we decided to use

4208
05:55:44,990 --> 05:55:42,718
the inner layer of corrugated plastic

4209
05:55:47,690 --> 05:55:45,000
which of course is waterproof as plastic

4210
05:55:49,730 --> 05:55:47,700
it's stronger and so has the inner like

4211
05:55:51,650 --> 05:55:49,740
Ridge design like cardboard does so it

4212
05:55:53,810 --> 05:55:51,660
still has that stability and on the

4213
05:55:56,090 --> 05:55:53,820

outside we used a piece of wood to be

4214

05:55:58,250 --> 05:55:56,100

able to hold the TPU Treads the 3D

4215

05:55:59,810 --> 05:55:58,260

printed treads on the inside which gave

4216

05:56:04,730 --> 05:55:59,820

the back wheels a whole lot of friction

4217

05:56:07,310 --> 05:56:06,230

yes there is someone we want to think

4218

05:56:10,850 --> 05:56:07,320

from

4219

05:56:13,010 --> 05:56:10,860

UDC team actually uh Ben he was actually

4220

05:56:16,310 --> 05:56:13,020

a lot of help while building the Rover

4221

05:56:18,770 --> 05:56:16,320

we had to go from our school to UDC

4222

05:56:20,990 --> 05:56:18,780

about like every day

4223

05:56:23,990 --> 05:56:21,000

um about a 25 minute train right there

4224

05:56:26,330 --> 05:56:24,000

and we had to figure out scheduling when

4225

05:56:28,910 --> 05:56:26,340

people were available and so yeah I want

4226
05:56:30,650 --> 05:56:28,920
to give a huge thanks to Ben he was he

4227
05:56:31,730 --> 05:56:30,660
was a real big help if we would not be

4228
05:56:33,770 --> 05:56:31,740
here without him

4229
05:56:36,110 --> 05:56:33,780
we love seeing that

4230
05:56:39,650 --> 05:56:36,120
um I also wanted to thank um our

4231
05:56:42,530 --> 05:56:39,660
administrator Mr Kenneth Leslie he was a

4232
05:56:44,628 --> 05:56:42,540
great help not only helping us to

4233
05:56:46,670 --> 05:56:44,638
get here today helping us with a few of

4234
05:56:48,830 --> 05:56:46,680
our designs and helping us come and

4235
05:56:50,750 --> 05:56:48,840
collect with our wheel hubs that

4236
05:56:53,628 --> 05:56:50,760
inverted on our way out to the course

4237
05:56:56,030 --> 05:56:53,638
yesterday in the center of the wheel the

4238
05:56:58,128 --> 05:56:56,040

wheel hubs decided that it would be

4239

05:57:01,490 --> 05:56:58,138

really cool to just go inside of the

4240

05:57:02,930 --> 05:57:01,500

wheel so we decided to make bigger hubs

4241

05:57:05,570 --> 05:57:02,940

so that the amount of torque could be

4242

05:57:07,010 --> 05:57:05,580

displaced farther out and so we wouldn't

4243

05:57:08,868 --> 05:57:07,020

have to worry about the hubs inverting

4244

05:57:10,730 --> 05:57:08,878

anymore but we decided to keep these

4245

05:57:11,570 --> 05:57:10,740

internal design but we made bigger hubs

4246

05:57:13,368 --> 05:57:11,580

for it

4247

05:57:14,930 --> 05:57:13,378

great well thank you for joining us in

4248

05:57:16,850 --> 05:57:14,940

the booth we love hearing about the

4249

05:57:18,770 --> 05:57:16,860

wheel design that you had

4250

05:57:20,510 --> 05:57:18,780

um Good Luck uh at the award sign room

4251
05:57:22,490 --> 05:57:20,520
we're looking forward to seeing maybe

4252
05:57:24,048 --> 05:57:22,500
you'll win social media stem we have a

4253
05:57:26,150 --> 05:57:24,058
lot of Awards coming up so we're excited

4254
05:57:27,948 --> 05:57:26,160
to see that so thank you and we have

4255
05:57:29,570 --> 05:57:27,958
somebody at the start line that is

4256
05:57:30,948 --> 05:57:29,580
getting ready to go on to the course and

4257
05:57:32,390 --> 05:57:30,958
we are going to pass it to our colleague

4258
05:57:34,430 --> 05:57:32,400
Beth

4259
05:57:36,708 --> 05:57:34,440
thanks so much Alyssa and Lance I'm here

4260
05:57:39,170 --> 05:57:36,718
with a couple of Bulldogs from Alabama a

4261
05:57:41,150 --> 05:57:39,180
m University they came from the hill and

4262
05:57:43,850 --> 05:57:41,160
they are here to conquer conquer some of

4263
05:57:44,690 --> 05:57:43,860

the obstacles uh so can I ask you your

4264

05:57:47,510 --> 05:57:44,700

name

4265

05:57:49,670 --> 05:57:47,520

um I'm Leon Trinidad and I'm a bio major

4266

05:57:51,530 --> 05:57:49,680

oh a biology major and you said that

4267

05:57:54,708 --> 05:57:51,540

you're also a biology major yes ma'am my

4268

05:57:56,708 --> 05:57:54,718

name is Adrian from Jamaica and I study

4269

05:58:05,448 --> 05:57:56,718

internationally at Alabama University

4270

05:58:09,470 --> 05:58:07,490

I say this is um on the way to that um

4271

05:58:11,330 --> 05:58:09,480

it gets it allows me to get some

4272

05:58:12,948 --> 05:58:11,340

experience have some fun and work with

4273

05:58:15,230 --> 05:58:12,958

some amazing people some hard-working

4274

05:58:17,590 --> 05:58:15,240

people and um just accomplish things and

4275

05:58:20,510 --> 05:58:17,600

I'm here which is an amazing opportunity

4276

05:58:23,030 --> 05:58:20,520

no downsides other than um you know at

4277

05:58:24,770 --> 05:58:23,040

the time the time invested but that's a

4278

05:58:26,510 --> 05:58:24,780

part of the process isn't it it really

4279

05:58:28,250 --> 05:58:26,520

is and you've learned a lot from it and

4280

05:58:30,170 --> 05:58:28,260

I really appreciate you guys being here

4281

05:58:31,970 --> 05:58:30,180

and you guys learned a little bit uh

4282

05:58:33,350 --> 05:58:31,980

from yesterday on your your time at the

4283

05:58:36,170 --> 05:58:33,360

course is there anything that you kind

4284

05:58:41,030 --> 05:58:36,180

of changed up to do better today

4285

05:58:43,850 --> 05:58:42,230

do some

4286

05:58:44,990 --> 05:58:43,860

what would you call it like if we have

4287

05:58:48,110 --> 05:58:45,000

an issue and we need to get off

4288

05:58:49,730 --> 05:58:48,120

temporarily we're hoping we can um shave

4289

05:58:51,650 --> 05:58:49,740

sometimes there with the getting on and

4290

05:58:54,470 --> 05:58:51,660

getting off and knowing when to do that

4291

05:58:55,850 --> 05:58:54,480

and hopefully we'll be able to reach our

4292

05:58:57,470 --> 05:58:55,860

goals that we said for ourselves

4293

05:58:59,330 --> 05:58:57,480

yesterday yeah and you guys have that

4294

05:59:01,910 --> 05:58:59,340

fighting Bulldog Spirit you have a lot

4295

05:59:02,990 --> 05:59:01,920

of people here uh to cheer you on is

4296

05:59:04,548 --> 05:59:03,000

there anyone that you would like to

4297

05:59:06,230 --> 05:59:04,558

thank of course I have plenty of people

4298

05:59:09,230 --> 05:59:06,240

to thank I'd like to thank um everyone

4299

05:59:12,110 --> 05:59:09,240

team including um ope I like this and

4300

05:59:13,368 --> 05:59:12,120

Gary Dr Chen I like to thank my

4301

05:59:16,788 --> 05:59:13,378

University of course all about Miami

4302

05:59:20,208 --> 05:59:16,798

University I'd like to thank Honda I'd

4303

05:59:22,368 --> 05:59:20,218

like to thank our engineering department

4304

05:59:24,128 --> 05:59:22,378

um who else am I forgetting anyone am I

4305

05:59:27,948 --> 05:59:24,138

forgetting anyone

4306

05:59:29,930 --> 05:59:27,958

I like to thank my mom of course yeah

4307

05:59:32,390 --> 05:59:29,940

and everyone who has been a part of this

4308

05:59:34,128 --> 05:59:32,400

project and who will be a part of it in

4309

05:59:36,110 --> 05:59:34,138

the future well thank you guys so much

4310

05:59:39,048 --> 05:59:36,120

we really appreciate you guys being here

4311

05:59:40,548 --> 05:59:39,058

it is going to be a a good time today

4312

05:59:42,650 --> 05:59:40,558

out on the course and I'm going to wish

4313

05:59:44,208 --> 05:59:42,660

you guys the best of luck all right

4314

05:59:46,670 --> 05:59:44,218

thanks guys and we'll go back to you

4315

05:59:49,610 --> 05:59:46,680

guys in the broadcast booth

4316

05:59:51,890 --> 05:59:49,620

thanks Beth uh just for anyone tuning in

4317

05:59:54,230 --> 05:59:51,900

I wanted to remind everybody we are at

4318

05:59:57,170 --> 05:59:54,240

the U.S Space and Rocket Center at the

4319

05:59:59,090 --> 05:59:57,180

2023 human exploration Rover challenge

4320

06:00:00,590 --> 05:59:59,100

Liz tell us a little bit about the

4321

06:00:04,128 --> 06:00:00,600

course this year

4322

06:00:07,310 --> 06:00:04,138

well I know that they have a new uh

4323

06:00:10,548 --> 06:00:07,320

challenge or a new course of course that

4324

06:00:13,788 --> 06:00:10,558

the team is uh taking on

4325

06:00:15,708 --> 06:00:13,798

each team has two pilots one is male one

4326

06:00:17,810 --> 06:00:15,718

is female and they have to complete the

4327

06:00:21,048 --> 06:00:17,820

course uh in eight minutes

4328

06:00:23,810 --> 06:00:21,058

uh they also uh have to maintain a

4329

06:00:26,150 --> 06:00:23,820

certain uh weight with The Rovers uh and

4330

06:00:28,670 --> 06:00:26,160

that that's our lightweight category uh

4331

06:00:31,010 --> 06:00:28,680

and it's five by five by five uh cubic

4332

06:00:34,190 --> 06:00:31,020

feet has to fit in a box of that size

4333

06:00:36,530 --> 06:00:34,200

yeah and that's equivalent to a uh a

4334

06:00:38,930 --> 06:00:36,540

rocket payload uh that goes up into

4335

06:00:41,690 --> 06:00:38,940

outer space and our human exploration

4336

06:00:44,448 --> 06:00:41,700

missions yeah there's a taco has to be

4337

06:00:45,590 --> 06:00:44,458

uh you know light yes it does and

4338

06:00:47,570 --> 06:00:45,600

there's other challenges they have to

4339

06:00:49,610 --> 06:00:47,580

face too on the course there's 10

4340

06:00:51,410 --> 06:00:49,620

obstacles that they can go through they

4341

06:00:53,030 --> 06:00:51,420

can bypass them if they choose to it's

4342

06:00:54,830 --> 06:00:53,040

all about that time limit

4343

06:00:56,270 --> 06:00:54,840

um they can also do the mission tasks

4344

06:00:57,830 --> 06:00:56,280

that are on the course and get points

4345

06:01:00,110 --> 06:00:57,840

for those it's all about the points for

4346

06:01:01,610 --> 06:01:00,120

the course this is not just a race it's

4347

06:01:03,470 --> 06:01:01,620

not just about who gets through it the

4348

06:01:05,390 --> 06:01:03,480

fastest but about the points that you

4349

06:01:08,030 --> 06:01:05,400

gather along the way so that's really

4350

06:01:09,770 --> 06:01:08,040

good to remind people of um this is our

4351
06:01:11,270 --> 06:01:09,780
last segment of live commentary today

4352
06:01:13,548 --> 06:01:11,280
but what

4353
06:01:15,470 --> 06:01:13,558
courses or Rovers going through the

4354
06:01:17,570 --> 06:01:15,480
course all day long

4355
06:01:19,730 --> 06:01:17,580
um but we will be getting to that award

4356
06:01:21,770 --> 06:01:19,740
ceremony a little later this evening and

4357
06:01:23,868 --> 06:01:21,780
there's a ton of awards besides just

4358
06:01:26,030 --> 06:01:23,878
what they're gonna get on the course

4359
06:01:27,170 --> 06:01:26,040
time and the course points um can you

4360
06:01:29,150 --> 06:01:27,180
tell us a little bit about some of those

4361
06:01:32,330 --> 06:01:29,160
Awards uh well a couple that come to

4362
06:01:34,910 --> 06:01:32,340
mind um are the social media award uh

4363
06:01:38,470 --> 06:01:34,920

that category which focuses on the

4364

06:01:43,070 --> 06:01:41,330

experiences and promoting stem and then

4365

06:01:45,650 --> 06:01:43,080

you also have stem engagement I

4366

06:01:49,610 --> 06:01:45,660

understand they had to meet a minimum

4367

06:01:52,730 --> 06:01:49,620

requirement of at least uh 200. 200

4368

06:01:56,150 --> 06:01:52,740

engagements 200 students so that focuses

4369

06:01:58,368 --> 06:01:56,160

on promoting stem education to uh this

4370

06:02:00,590 --> 06:01:58,378

generation and this generation is the

4371

06:02:03,410 --> 06:02:00,600

next generation of Artemis yes this is

4372

06:02:07,670 --> 06:02:05,570

on these Rovers they're also engaging

4373

06:02:09,948 --> 06:02:07,680

and inspire

4374

06:02:14,270 --> 06:02:09,958

as well some of them might become our

4375

06:02:17,690 --> 06:02:15,890

at their Peak I feel like you know we

4376
06:02:20,270 --> 06:02:17,700
just successfully launch Artemis one

4377
06:02:21,770 --> 06:02:20,280
we've announced the crew for Artemis 2.

4378
06:02:23,810 --> 06:02:21,780
you know you can check on updates for

4379
06:02:25,548 --> 06:02:23,820
those on social media follow NASA's

4380
06:02:28,010 --> 06:02:25,558
Marshall space flight center on Facebook

4381
06:02:29,930 --> 06:02:28,020
Twitter Instagram LinkedIn we're on all

4382
06:02:31,430 --> 06:02:29,940
the platforms where you can get constant

4383
06:02:33,530 --> 06:02:31,440
updates about the work that Marshall is

4384
06:02:35,270 --> 06:02:33,540
doing for the Artemis missions we do a

4385
06:02:36,830 --> 06:02:35,280
lot of other things as well but you know

4386
06:02:38,930 --> 06:02:36,840
this Artemis generation that we're

4387
06:02:41,030 --> 06:02:38,940
talking about today is really the key

4388
06:02:43,368 --> 06:02:41,040

for for

4389

06:02:45,890 --> 06:02:43,378

future missions yeah and one of those

4390

06:02:48,410 --> 06:02:45,900

missions or our goals is to send the

4391

06:02:50,448 --> 06:02:48,420

first woman to the moon and the first

4392

06:02:52,788 --> 06:02:50,458

person of color that's correct yeah

4393

06:02:54,948 --> 06:02:52,798

that's a huge goal for the mission we I

4394

06:02:57,110 --> 06:02:54,958

can't wait to see it see it I mean uh

4395

06:02:58,970 --> 06:02:57,120

this Artemis era of space exploration I

4396

06:03:00,948 --> 06:02:58,980

like to call it is absolutely amazing

4397

06:03:03,110 --> 06:03:00,958

they're going to be landing actually on

4398

06:03:04,310 --> 06:03:03,120

the South Pole of the moon and the

4399

06:03:06,350 --> 06:03:04,320

reason they're doing that is we want to

4400

06:03:08,868 --> 06:03:06,360

learn a little bit more about the lunar

4401

06:03:11,090 --> 06:03:08,878

ice a water on the moon it's a huge

4402

06:03:12,708 --> 06:03:11,100

thing that we have to find and we have

4403

06:03:14,628 --> 06:03:12,718

to learn more about to create that

4404

06:03:17,270 --> 06:03:14,638

sustained human presence on the moon and

4405

06:03:19,310 --> 06:03:17,280

and from there we're going to Mars

4406

06:03:20,750 --> 06:03:19,320

that's correct and that's good to know

4407

06:03:22,490 --> 06:03:20,760

and I'm glad you pointed that out we're

4408

06:03:25,850 --> 06:03:22,500

not just going back we're going back

4409

06:03:27,530 --> 06:03:25,860

with a purpose exactly yes we are so

4410

06:03:30,170 --> 06:03:27,540

just

4411

06:03:31,788 --> 06:03:30,180

teams that are competing today 16 States

4412

06:03:33,288 --> 06:03:31,798

we have the District of Columbia we have

4413

06:03:36,110 --> 06:03:33,298

Puerto Rico we have eight Nations

4414

06:03:38,390 --> 06:03:36,120

represented today yes we do

4415

06:03:40,250 --> 06:03:38,400

um and if I can take a moment and just

4416

06:03:44,628 --> 06:03:40,260

uh highlight those Nations we have

4417

06:03:47,930 --> 06:03:44,638

Bolivia we have Brazil we have Colombia

4418

06:03:50,750 --> 06:03:47,940

we also have the Dominican Republic we

4419

06:03:53,448 --> 06:03:50,760

have India we have Peru we have Mexico

4420

06:03:55,730 --> 06:03:53,458

and we have Singapore yeah and I think

4421

06:03:56,750 --> 06:03:55,740

we actually have Brazil at the start

4422

06:03:58,010 --> 06:03:56,760

line

4423

06:03:59,448 --> 06:03:58,020

um so we are going to look into

4424

06:04:01,250 --> 06:03:59,458

interviewing them a little bit learn

4425

06:04:03,590 --> 06:04:01,260

more about their team what their

4426

06:04:05,150 --> 06:04:03,600

strategy is for day two at this

4427

06:04:08,510 --> 06:04:05,160

competition so we are going to pass it

4428

06:04:13,430 --> 06:04:10,850

thanks so much Alyssa and Lance yes I am

4429

06:04:14,690 --> 06:04:13,440

here with team Brazil and what school

4430

06:04:17,868 --> 06:04:14,700

are you guys from

4431

06:04:21,230 --> 06:04:19,490

okay fantastic what is your name

4432

06:04:24,110 --> 06:04:21,240

isabelly

4433

06:04:25,610 --> 06:04:24,120

Eduardo all right Isabel announcer you

4434

06:04:27,288 --> 06:04:25,620

guys were out here yesterday what did

4435

06:04:30,650 --> 06:04:27,298

you learn from the course

4436

06:04:34,788 --> 06:04:30,660

we learned that uh the uh the challenge

4437

06:04:38,990 --> 06:04:34,798

is way Challenger than we thought and

4438

06:04:42,230 --> 06:04:39,000

um like the obstacles I really like the

4439

06:04:44,930 --> 06:04:42,240

Martian and lunar surfaces and we

4440

06:04:48,230 --> 06:04:44,940

thought it'd be a little like or like an

4441

06:04:51,170 --> 06:04:48,240

Earth but it's not and

4442

06:04:53,510 --> 06:04:51,180

we try to do our best today

4443

06:04:55,368 --> 06:04:53,520

yeah and we were talking about how your

4444

06:04:57,470 --> 06:04:55,378

attitudes are great it's as bright as

4445

06:04:59,930 --> 06:04:57,480

your paint colors on here and then you

4446

06:05:02,150 --> 06:04:59,940

wanted it to look very festive and show

4447

06:05:04,548 --> 06:05:02,160

off Brazil is that right yeah we tried

4448

06:05:07,850 --> 06:05:04,558

to do like the Brazilian flag and show

4449

06:05:10,010 --> 06:05:07,860

our energy and the effort we put it on

4450

06:05:13,910 --> 06:05:10,020

this and how many people do you have on

4451
06:05:16,788 --> 06:05:13,920
your team we are five people one but one

4452
06:05:18,650 --> 06:05:16,798
advisor and four team members fantastic

4453
06:05:20,448 --> 06:05:18,660
I can't believe that four team members

4454
06:05:22,368 --> 06:05:20,458
really put this together you flew all

4455
06:05:25,010 --> 06:05:22,378
the way from Brazil are you ready to hit

4456
06:05:27,530 --> 06:05:25,020
the course and make it yours yeah we're

4457
06:05:29,628 --> 06:05:27,540
ready all right well we'll get you guys

4458
06:05:31,310 --> 06:05:29,638
started counting down in just a few

4459
06:05:32,390 --> 06:05:31,320
minutes and I appreciate you guys being

4460
06:05:34,788 --> 06:05:32,400
here

4461
06:05:37,730 --> 06:05:34,798
thank you thanks and we'll throw it back

4462
06:05:40,190 --> 06:05:37,740
to you guys at the broadcast back booth

4463
06:05:43,310 --> 06:05:40,200

Eva just a reminder that this is our

4464

06:05:45,230 --> 06:05:43,320

first year back in person since 2019. at

4465

06:05:46,970 --> 06:05:45,240

the U.S Space and Rocket Center we are

4466

06:05:50,390 --> 06:05:46,980

so excited to be here and what year are

4467

06:05:57,350 --> 06:05:50,400

we at this is Year 29. we're excited for

4468

06:06:01,368 --> 06:05:59,270

like I mentioned earlier um we're going

4469

06:06:03,470 --> 06:06:01,378

to be watching um some of the Rovers on

4470

06:06:06,770 --> 06:06:03,480

the course right now we've got Rovers

4471

06:06:08,330 --> 06:06:06,780

all day long this is not nearly over we

4472

06:06:09,830 --> 06:06:08,340

have a ton of Rovers coming up we're

4473

06:06:11,270 --> 06:06:09,840

going to take a short little break just

4474

06:06:13,730 --> 06:06:11,280

to watch some of the Rovers we got

4475

06:06:15,048 --> 06:06:13,740

Alabama a m University on the course so

4476
06:06:16,788 --> 06:06:15,058
we're gonna take a short break to watch

4477
06:08:34,010 --> 06:06:16,798
them but we will be back in just a few

4478
06:08:34,020 --> 06:09:42,948
foreign

4479
06:09:46,548 --> 06:09:45,288
hello we are back in the broadcast Booth

4480
06:09:48,410 --> 06:09:46,558
with another team that we're

4481
06:09:49,850 --> 06:09:48,420
interviewing your team is about to go on

4482
06:09:51,948 --> 06:09:49,860
to the course can you tell me your name

4483
06:09:53,810 --> 06:09:51,958
and what school you're with yeah so I'm

4484
06:09:55,430 --> 06:09:53,820
adnav Singh and I'm the team leader of

4485
06:09:58,670 --> 06:09:55,440
inspire colors Gravity from building

4486
06:10:00,830 --> 06:09:58,680
Studio technology and science India and

4487
06:10:02,868 --> 06:10:00,840
uh yep we are here to participate in

4488
06:10:04,670 --> 06:10:02,878

NASA Hulk great and I understand that

4489

06:10:06,590 --> 06:10:04,680

you did not compete in day one and your

4490

06:10:08,448 --> 06:10:06,600

rookie team can you tell me a little bit

4491

06:10:10,788 --> 06:10:08,458

more about what your first year here has

4492

06:10:12,530 --> 06:10:10,798

been like it's been tough actually the

4493

06:10:14,570 --> 06:10:12,540

logistics and the technical management

4494

06:10:15,830 --> 06:10:14,580

has been tough we encountered some

4495

06:10:17,750 --> 06:10:15,840

issues yesterday that's why we weren't

4496

06:10:19,788 --> 06:10:17,760

able to make a run we've broke some

4497

06:10:22,070 --> 06:10:19,798

parts but we managed to repair them and

4498

06:10:24,230 --> 06:10:22,080

hence we are going for a run today

4499

06:10:26,090 --> 06:10:24,240

so glad to have you with us for the

4500

06:10:29,628 --> 06:10:26,100

first time can you talk with us about

4501

06:10:31,190 --> 06:10:29,638

your strategy for today uh yeah so

4502

06:10:33,590 --> 06:10:31,200

actually we have a bit of issues with

4503

06:10:34,670 --> 06:10:33,600

the steering so we can do attend most of

4504

06:10:37,128 --> 06:10:34,680

the obstacles

4505

06:10:38,810 --> 06:10:37,138

and uh whatever tasks we can achieve we

4506

06:10:40,548 --> 06:10:38,820

can really achieve we'll skip the High

4507

06:10:42,850 --> 06:10:40,558

View and other high incline tasks

4508

06:10:45,048 --> 06:10:42,860

because the sweating won't support that

4509

06:10:46,670 --> 06:10:45,058

we've actually broke some of the stuff

4510

06:10:48,830 --> 06:10:46,680

in the morning but we managed to repair

4511

06:10:51,770 --> 06:10:48,840

that but just to be safe we are going to

4512

06:10:53,750 --> 06:10:51,780

bypass that and just do the more planar

4513

06:10:56,330 --> 06:10:53,760

obstacles

4514

06:10:57,890 --> 06:10:56,340

awesome so uh describe what the team is

4515

06:11:00,650 --> 06:10:57,900

like like how's the morale how's

4516

06:11:01,910 --> 06:11:00,660

excitement so the team is like we have

4517

06:11:04,850 --> 06:11:01,920

been all together for the past three

4518

06:11:07,610 --> 06:11:04,860

years and all of us have wanted like a

4519

06:11:09,230 --> 06:11:07,620

small family and every every problem

4520

06:11:11,090 --> 06:11:09,240

every good thing we have faced together

4521

06:11:13,128 --> 06:11:11,100

we are faces together we came here

4522

06:11:15,350 --> 06:11:13,138

together we had lots of issues in coming

4523

06:11:17,030 --> 06:11:15,360

here we had lots of issues here but all

4524

06:11:20,390 --> 06:11:17,040

of us we stuck together and we have

4525

06:11:22,788 --> 06:11:20,400

managed to solve it so yeah I think

4526

06:11:24,830 --> 06:11:22,798

awesome well one more question is there

4527

06:11:26,750 --> 06:11:24,840

any advice you want to give to uh

4528

06:11:28,128 --> 06:11:26,760

participants who will be coming next

4529

06:11:30,288 --> 06:11:28,138

year for the first time

4530

06:11:32,628 --> 06:11:30,298

uh do your test students properly at

4531

06:11:34,490 --> 06:11:32,638

home and when you come here so that you

4532

06:11:36,910 --> 06:11:34,500

don't have any work to do here because

4533

06:11:40,010 --> 06:11:36,920

if you leave anything to complete hair

4534

06:11:41,448 --> 06:11:40,020

you might face some issues but it's

4535

06:11:44,510 --> 06:11:41,458

engineering so it's nothing that's not

4536

06:11:46,910 --> 06:11:44,520

solvable so yeah we thank you so much

4537

06:11:49,430 --> 06:11:46,920

for being with us yeah and as a reminder

4538

06:11:51,410 --> 06:11:49,440

we are at the 2023 human exploration

4539

06:11:53,270 --> 06:11:51,420

Rover challenge we're gonna get a little

4540

06:11:55,368 --> 06:11:53,280

behind the scenes look at what these

4541

06:11:58,850 --> 06:11:55,378

students go through to get here you know

4542

06:12:01,010 --> 06:11:58,860

a part of the Rover challenge is

4543

06:12:02,570 --> 06:12:01,020

stopping at the pit crew we have the

4544

06:12:04,490 --> 06:12:02,580

NASA Marshall pit crew here that is

4545

06:12:06,170 --> 06:12:04,500

helping students if they have any issues

4546

06:12:07,788 --> 06:12:06,180

with welding or parts falling off and

4547

06:12:10,070 --> 06:12:07,798

they need a little bit of extra help we

4548

06:12:11,628 --> 06:12:10,080

have a picker here and about that a

4549

06:12:14,750 --> 06:12:11,638

little more we have our colleague Lauren

4550

06:12:19,490 --> 06:12:16,910

have Steve with me from the NASA pit

4551
06:12:21,530 --> 06:12:19,500
crew and uh nearly every team I've

4552
06:12:24,048 --> 06:12:21,540
talked to during this um challenge

4553
06:12:27,048 --> 06:12:24,058
yesterday and today has utilized the pit

4554
06:12:30,048 --> 06:12:27,058
so really a just a crucial part of this

4555
06:12:31,850 --> 06:12:30,058
the entire event so tell me how what

4556
06:12:33,948 --> 06:12:31,860
sort of tools and stuff do you does the

4557
06:12:36,110 --> 06:12:33,958
pit crew provide okay we have a variety

4558
06:12:37,850 --> 06:12:36,120
of tools everything from hand tools

4559
06:12:40,430 --> 06:12:37,860
screwdrivers wrenches and things like

4560
06:12:42,708 --> 06:12:40,440
that then we have power tools angle

4561
06:12:44,510 --> 06:12:42,718
grinders drills and things like that as

4562
06:12:47,330 --> 06:12:44,520
well and then we also have some larger

4563
06:12:49,730 --> 06:12:47,340

tools which we help assist them with we

4564

06:12:51,948 --> 06:12:49,740

have welders plasma cutters band saws

4565

06:12:53,690 --> 06:12:51,958

Blaze and and Mills and things like that

4566

06:12:55,190 --> 06:12:53,700

so we again want to try to make sure

4567

06:12:57,230 --> 06:12:55,200

that we help these teams be as

4568

06:12:59,390 --> 06:12:57,240

successful as they can by providing

4569

06:13:01,310 --> 06:12:59,400

those tools and and materials where

4570

06:13:04,250 --> 06:13:01,320

where we can and you're not just

4571

06:13:06,170 --> 06:13:04,260

providing the tools and the materials a

4572

06:13:08,570 --> 06:13:06,180

lot of the students although they may be

4573

06:13:11,270 --> 06:13:08,580

learning how to use these materials and

4574

06:13:13,670 --> 06:13:11,280

tools y'all are actually helping and and

4575

06:13:16,670 --> 06:13:13,680

doing the work for them right well we we

4576

06:13:19,010 --> 06:13:16,680

supervise we we look and see if we have

4577

06:13:20,570 --> 06:13:19,020

capabilities we always like to have the

4578

06:13:22,850 --> 06:13:20,580

students or their instructors or

4579

06:13:24,288 --> 06:13:22,860

advisors do the work themselves but

4580

06:13:27,770 --> 06:13:24,298

again it needs to be done in a safe

4581

06:13:29,930 --> 06:13:27,780

fashion so we're always very diligent on

4582

06:13:32,030 --> 06:13:29,940

making sure they do things so we don't

4583

06:13:33,470 --> 06:13:32,040

try to again do that for them we can

4584

06:13:35,690 --> 06:13:33,480

provide guidance and things like that

4585

06:13:37,970 --> 06:13:35,700

but there are some cases where we if

4586

06:13:39,890 --> 06:13:37,980

they need some specialized work we will

4587

06:13:42,110 --> 06:13:39,900

actually do that but again the desire is

4588

06:13:43,128 --> 06:13:42,120

always to have them do as much of it as

4589

06:13:45,410 --> 06:13:43,138

they can

4590

06:13:47,390 --> 06:13:45,420

now Steven you were telling me that

4591

06:13:50,628 --> 06:13:47,400

you've been doing this you know some 20

4592

06:13:52,190 --> 06:13:50,638

plus years so a lot has changed and

4593

06:13:53,990 --> 06:13:52,200

developed over

4594

06:13:55,788 --> 06:13:54,000

um really even just the last you know

4595

06:13:58,548 --> 06:13:55,798

decade or so have there been anything

4596

06:14:00,830 --> 06:13:58,558

this this specific year this specific

4597

06:14:03,890 --> 06:14:00,840

specific challenge that

4598

06:14:06,890 --> 06:14:03,900

um you've seen that has broken any sort

4599

06:14:08,810 --> 06:14:06,900

of uh comparisons like a lot of Wheels a

4600

06:14:10,490 --> 06:14:08,820

lot of axles something like that it's

4601
06:14:12,590 --> 06:14:10,500
been a variety of a lot of things as you

4602
06:14:14,990 --> 06:14:12,600
know as the Rover challenges has matured

4603
06:14:16,368 --> 06:14:15,000
as well they changed the rules and of

4604
06:14:19,310 --> 06:14:16,378
course the teams are adopting to they're

4605
06:14:21,288 --> 06:14:19,320
adapting to those rules and a lot of the

4606
06:14:23,990 --> 06:14:21,298
things we see originally they were many

4607
06:14:27,170 --> 06:14:24,000
spoke wheels bicycle wheels and chain

4608
06:14:29,030 --> 06:14:27,180
driven now they've Advanced from that we

4609
06:14:31,730 --> 06:14:29,040
have belt driven we have some gear

4610
06:14:33,470 --> 06:14:31,740
driven uh very Innovative activities but

4611
06:14:35,868 --> 06:14:33,480
of course with those complexities it's

4612
06:14:37,850 --> 06:14:35,878
much more difficult to do just to make a

4613
06:14:40,610 --> 06:14:37,860

rover go now going over the course that

4614

06:14:42,650 --> 06:14:40,620

they have to go through it's that much

4615

06:14:44,810 --> 06:14:42,660

more challenging so again with the

4616

06:14:46,850 --> 06:14:44,820

Within increased rules and the changes

4617

06:14:47,930 --> 06:14:46,860

we've seen that Innovation from from all

4618

06:14:49,730 --> 06:14:47,940

the teams

4619

06:14:51,410 --> 06:14:49,740

now paint me sort of a visual picture

4620

06:14:52,270 --> 06:14:51,420

since we don't have that right now on

4621

06:14:55,368 --> 06:14:52,280

camera

4622

06:14:57,590 --> 06:14:55,378

a Rover pulls up or sometimes maybe they

4623

06:14:59,510 --> 06:14:57,600

have to carry it up if maybe their

4624

06:15:00,890 --> 06:14:59,520

wheels are broken painting a visual of

4625

06:15:03,048 --> 06:15:00,900

sort of what they can expect when they

4626
06:15:04,788 --> 06:15:03,058
arrive and to the exit okay so we have

4627
06:15:06,530 --> 06:15:04,798
the pin area laid out where we have

4628
06:15:08,570 --> 06:15:06,540
essentially an area where they can come

4629
06:15:11,270 --> 06:15:08,580
to and make their requests what

4630
06:15:13,850 --> 06:15:11,280
information what tools what help they

4631
06:15:16,970 --> 06:15:13,860
need so we have our volunteers that are

4632
06:15:19,430 --> 06:15:16,980
set there and we kind of do a triage we

4633
06:15:21,770 --> 06:15:19,440
find out what they need whether it might

4634
06:15:24,170 --> 06:15:21,780
be a tool loan or something else and we

4635
06:15:26,750 --> 06:15:24,180
go and we find the right person for the

4636
06:15:28,788 --> 06:15:26,760
right job that they're after and again

4637
06:15:30,948 --> 06:15:28,798
we have the pit laid out to be very safe

4638
06:15:33,230 --> 06:15:30,958

we have the welding areas we have

4639

06:15:34,670 --> 06:15:33,240

shielded Machining area the grinding

4640

06:15:37,070 --> 06:15:34,680

areas and things like that it's all

4641

06:15:39,470 --> 06:15:37,080

separated so we're working as safely as

4642

06:15:42,110 --> 06:15:39,480

possible so from that once we find out

4643

06:15:44,868 --> 06:15:42,120

what their need is we will go ahead and

4644

06:15:46,910 --> 06:15:44,878

work with them provide the oversight and

4645

06:15:48,708 --> 06:15:46,920

and where necessary you know do the

4646

06:15:49,788 --> 06:15:48,718

minimal amount of work that we can for

4647

06:15:51,170 --> 06:15:49,798

them

4648

06:15:54,230 --> 06:15:51,180

um and again it might be a five minute

4649

06:15:55,490 --> 06:15:54,240

job uh sometimes we've seen some Crews

4650

06:15:57,350 --> 06:15:55,500

that have been in there for almost the

4651

06:15:58,850 --> 06:15:57,360

entire Rover challenge

4652

06:16:00,650 --> 06:15:58,860

um but again we're there to help them we

4653

06:16:02,390 --> 06:16:00,660

want them to be successful you know

4654

06:16:04,788 --> 06:16:02,400

these teams travel from all over the

4655

06:16:06,590 --> 06:16:04,798

world uh and they only have a limited

4656

06:16:08,628 --> 06:16:06,600

budget and materials they can bring with

4657

06:16:10,368 --> 06:16:08,638

them so we want to make sure that you

4658

06:16:13,310 --> 06:16:10,378

know if they need a washer or they need

4659

06:16:15,890 --> 06:16:13,320

something repaired we can help them be

4660

06:16:17,390 --> 06:16:15,900

successful out in the course and part of

4661

06:16:19,850 --> 06:16:17,400

engineering this is an engineering

4662

06:16:22,310 --> 06:16:19,860

challenge is figuring out how to figure

4663

06:16:23,990 --> 06:16:22,320

it out really and how to fix it like

4664

06:16:25,490 --> 06:16:24,000

that so thank you so much for sharing

4665

06:16:26,750 --> 06:16:25,500

some of that experience with us Steve

4666

06:16:28,548 --> 06:16:26,760

and I'll send it back to the broadcast

4667

06:16:30,230 --> 06:16:28,558

booth

4668

06:16:32,930 --> 06:16:30,240

thank you Lauren that is some great

4669

06:16:35,090 --> 06:16:32,940

information to hear from the a pic crew

4670

06:16:37,610 --> 06:16:35,100

person themselves speaking of our NASA

4671

06:16:38,750 --> 06:16:37,620

Marshall pick through volunteers Lance I

4672

06:16:41,350 --> 06:16:38,760

think we want to give a huge shout out

4673

06:16:43,610 --> 06:16:41,360

to them oh definitely uh to the

4674

06:16:46,430 --> 06:16:43,620

volunteers to the supporters the

4675

06:16:49,310 --> 06:16:46,440

sponsors the host uh the U.S Space and

4676
06:16:51,470 --> 06:16:49,320
Rocket Center everyone is so crucial and

4677
06:16:53,810 --> 06:16:51,480
vital to the success of this event and

4678
06:16:55,430 --> 06:16:53,820
we just are glad to be back yeah we

4679
06:16:57,410 --> 06:16:55,440
would not be able to do it without

4680
06:16:58,670 --> 06:16:57,420
uh we to all of our sponsors to all of

4681
06:17:00,890 --> 06:16:58,680
our volunteers to the

4682
06:17:02,628 --> 06:17:00,900
hope we thank you so much for being a

4683
06:17:05,930 --> 06:17:02,638
part of this human exploration Rover

4684
06:17:08,270 --> 06:17:05,940
challenge for the 29th year with that

4685
06:17:09,890 --> 06:17:08,280
all being said we do have a team down at

4686
06:17:12,048 --> 06:17:09,900
the start line they're excited to get

4687
06:17:12,770 --> 06:17:12,058
going we're excited to see them going so

4688
06:17:15,948 --> 06:17:12,780

let's

4689

06:17:19,788 --> 06:17:17,990

Beth thanks so much Alyssa and Lance we

4690

06:17:21,530 --> 06:17:19,798

are here with the inspired Carter's

4691

06:17:23,330 --> 06:17:21,540

gravity they came all the way over

4692

06:17:25,788 --> 06:17:23,340

didn't get a chance to hit the course

4693

06:17:27,048 --> 06:17:25,798

yesterday but you're ready today yep we

4694

06:17:29,868 --> 06:17:27,058

are ready for to hit the course today

4695

06:17:31,310 --> 06:17:29,878

and we hope we do good and I said we're

4696

06:17:32,750 --> 06:17:31,320

having a little problems with steering

4697

06:17:34,788 --> 06:17:32,760

but that's something to overcome and

4698

06:17:37,548 --> 06:17:34,798

just something to learn a lesson from is

4699

06:17:40,128 --> 06:17:37,558

that right yeah it's something that has

4700

06:17:41,510 --> 06:17:40,138

been an issue this year but we prepared

4701
06:17:44,150 --> 06:17:41,520
to manage to repair it multiple times

4702
06:17:46,490 --> 06:17:44,160
but it still has some pertaining issues

4703
06:17:48,530 --> 06:17:46,500
but we hope and we know we can repair it

4704
06:17:50,270 --> 06:17:48,540
uh going further and so you guys went

4705
06:17:52,368 --> 06:17:50,280
with a three wheel design is that

4706
06:17:54,590 --> 06:17:52,378
something that uh you thought might help

4707
06:17:55,850 --> 06:17:54,600
with some of the tasks yeah so compared

4708
06:17:57,770 --> 06:17:55,860
to last year you were trying to manage

4709
06:18:00,590 --> 06:17:57,780
weight this year so for going with the

4710
06:18:02,868 --> 06:18:00,600
lower weight we uh eliminated the fourth

4711
06:18:05,090 --> 06:18:02,878
wheel uh which eliminate the whole rear

4712
06:18:07,670 --> 06:18:05,100
axle and everything so the Rover as a

4713
06:18:09,288 --> 06:18:07,680

whole becomes a lighter and actually

4714

06:18:11,868 --> 06:18:09,298

it's kind of a team trademark that we

4715

06:18:13,670 --> 06:18:11,878

created price only so we kind of make

4716

06:18:15,650 --> 06:18:13,680

going for we are going forward with that

4717

06:18:19,070 --> 06:18:15,660

fantastic well we really hope you guys

4718

06:18:22,128 --> 06:18:19,080

have a great time out excuse me time out

4719

06:18:23,628 --> 06:18:22,138

on the course and you have a wonderful

4720

06:18:25,190 --> 06:18:23,638

time we appreciate you guys being here

4721

06:18:27,110 --> 06:18:25,200

hope to see you again next year okay

4722

06:18:29,628 --> 06:18:27,120

yeah see all right thank you so much

4723

06:18:31,970 --> 06:18:29,638

we'll throw it back to you Alison Lance

4724

06:18:33,170 --> 06:18:31,980

bath we have another team here in the

4725

06:18:34,970 --> 06:18:33,180

booth that we're interviewing this is

4726

06:18:36,890 --> 06:18:34,980

Purdue University can you tell me your

4727

06:18:38,270 --> 06:18:36,900

name and your role on the team my name

4728

06:18:39,048 --> 06:18:38,280

is Juan I'm the safety officer for the

4729

06:18:40,670 --> 06:18:39,058

team

4730

06:18:43,128 --> 06:18:40,680

my name is Anthony I'm one of the

4731

06:18:45,948 --> 06:18:43,138

mechanical designers for the team

4732

06:18:48,230 --> 06:18:45,958

all right so this is day two I

4733

06:18:49,910 --> 06:18:48,240

understand uh yesterday we had some

4734

06:18:51,590 --> 06:18:49,920

challenges going on would one of you

4735

06:18:54,708 --> 06:18:51,600

talk a little bit about that with your

4736

06:18:56,930 --> 06:18:54,718

team so yeah the uh our main concern is

4737

06:18:58,150 --> 06:18:56,940

one of the designs that we do for the

4738

06:19:00,530 --> 06:18:58,160

control arm

4739

06:19:04,010 --> 06:19:00,540

we weren't able to use those so we used

4740

06:19:05,930 --> 06:19:04,020

the previous years and same problem as

4741

06:19:08,090 --> 06:19:05,940

last year happened this year to where

4742

06:19:11,570 --> 06:19:08,100

the control arm in the epoxy pretty much

4743

06:19:14,090 --> 06:19:11,580

snapped at the first turn so to remedy

4744

06:19:16,128 --> 06:19:14,100

that we pretty much had a aluminum

4745

06:19:18,288 --> 06:19:16,138

square tubing put it all on the bottom

4746

06:19:19,730 --> 06:19:18,298

and improve it strengthen up the the

4747

06:19:23,330 --> 06:19:19,740

rest of the Rover

4748

06:19:26,330 --> 06:19:23,340

so tell us a little bit about

4749

06:19:28,548 --> 06:19:26,340

um your preparation your your your road

4750

06:19:30,890 --> 06:19:28,558

to getting here uh what was that like

4751

06:19:33,890 --> 06:19:30,900

getting everybody together I mean

4752

06:19:36,170 --> 06:19:33,900

getting everybody together we uh we met

4753

06:19:38,150 --> 06:19:36,180

every single week pretty much

4754

06:19:40,368 --> 06:19:38,160

um we're really on the time crunch

4755

06:19:42,170 --> 06:19:40,378

trying to find a lot more people

4756

06:19:44,868 --> 06:19:42,180

involved into the project because

4757

06:19:47,750 --> 06:19:44,878

initially it started with Juan me and

4758

06:19:49,368 --> 06:19:47,760

then uh Mr Zach Holmes

4759

06:19:51,288 --> 06:19:49,378

um we finally got all the rest of the

4760

06:19:53,990 --> 06:19:51,298

team a month before the competition so

4761

06:19:57,048 --> 06:19:54,000

it was very tight schedule but uh we

4762

06:19:59,930 --> 06:19:57,058

just power through it and here we are

4763

06:20:02,628 --> 06:19:59,940

nice now one of the things uh you all

4764

06:20:04,128 --> 06:20:02,638

are asked to do is stem engagement uh

4765

06:20:07,070 --> 06:20:04,138

could you talk a little bit about some

4766

06:20:10,430 --> 06:20:07,080

of the activities you've done uh back in

4767

06:20:11,208 --> 06:20:10,440

your area but

4768

06:20:12,770 --> 06:20:11,218

um

4769

06:20:14,208 --> 06:20:12,780

Zachary Holmes the one that's riding the

4770

06:20:15,650 --> 06:20:14,218

bike right now he's been visiting a

4771

06:20:17,510 --> 06:20:15,660

bunch of high schools middle schools and

4772

06:20:19,250 --> 06:20:17,520

stuff like that taking what we have some

4773

06:20:20,990 --> 06:20:19,260

of the Rover so far showing up to the

4774

06:20:22,970 --> 06:20:21,000

kids uh pretty much they're showing them

4775

06:20:24,830 --> 06:20:22,980

the actual mechanics of the Rover itself

4776

06:20:28,490 --> 06:20:24,840

and you know just doing stuff like that

4777

06:20:33,410 --> 06:20:28,500

uh for the stem engagement very much

4778

06:20:37,070 --> 06:20:34,610

kind of it oh that's pretty much well

4779

06:20:38,270 --> 06:20:37,080

they like math problem you know power

4780

06:20:40,610 --> 06:20:38,280

through it

4781

06:20:43,190 --> 06:20:40,620

um it's pretty much uh

4782

06:20:44,690 --> 06:20:43,200

stuff I mean it's always a hard Road you

4783

06:20:46,548 --> 06:20:44,700

know any kind of stuff would be a hard

4784

06:20:47,750 --> 06:20:46,558

road but if you like math or working

4785

06:20:49,310 --> 06:20:47,760

with your hands stuff like that Hands-On

4786

06:20:50,930 --> 06:20:49,320

with machines and stuff like that uh

4787

06:20:52,128 --> 06:20:50,940

best advice I give is just uh don't

4788

06:20:55,490 --> 06:20:52,138

don't give up you know there's always a

4789

06:20:57,110 --> 06:20:55,500

way to um work around stuff like that

4790

06:20:59,990 --> 06:20:57,120

tell me again how many years has your

4791

06:21:03,410 --> 06:21:00,000

University done a hurt challenge

4792

06:21:07,128 --> 06:21:03,420

I believe that because didn't the this

4793

06:21:08,390 --> 06:21:07,138

competition started in 1997 1994 1994.

4794

06:21:11,990 --> 06:21:08,400

so I believe

4795

06:21:13,750 --> 06:21:12,000

we started 2001. I mean I would like to

4796

06:21:17,030 --> 06:21:13,760

I have many years

4797

06:21:18,890 --> 06:21:17,040

it's been at least since 2000 yeah um

4798

06:21:20,810 --> 06:21:18,900

this is my first year of doing it so I'm

4799

06:21:22,670 --> 06:21:20,820

still kind of new to it but getting

4800

06:21:25,730 --> 06:21:22,680

absolutely in our first year back in

4801
06:21:27,230 --> 06:21:25,740
person since 2019 a new course too

4802
06:21:29,030 --> 06:21:27,240
challenging for everybody I think

4803
06:21:31,128 --> 06:21:29,040
whether you're a rookie or a veteran but

4804
06:21:32,390 --> 06:21:31,138
we're excited to have you here um I do

4805
06:21:34,010 --> 06:21:32,400
also want to ask is there anyone you

4806
06:21:35,750 --> 06:21:34,020
want to thank

4807
06:21:37,910 --> 06:21:35,760
I just pretty much saw the people that

4808
06:21:39,530 --> 06:21:37,920
funded well the people that got the

4809
06:21:40,788 --> 06:21:39,540
funding from for uh all the parts of our

4810
06:21:41,990 --> 06:21:40,798
Rover

4811
06:21:43,730 --> 06:21:42,000
um

4812
06:21:45,048 --> 06:21:43,740
but yeah pretty much uh that's pretty

4813
06:21:46,490 --> 06:21:45,058

much it like all the people funding our

4814

06:21:48,948 --> 06:21:46,500

advisor he's been pretty helpful as well

4815

06:21:50,990 --> 06:21:48,958

you know I'm helping us uh along the

4816

06:21:52,788 --> 06:21:51,000

road um you're giving us uh a few

4817

06:21:54,410 --> 06:21:52,798

pointers and stuff like that for advice

4818

06:21:55,128 --> 06:21:54,420

on how to actually assemble the robot or

4819

06:21:56,810 --> 06:21:55,138

something like that so it's pretty much

4820

06:21:58,548 --> 06:21:56,820

all the people that helped us uh get to

4821

06:22:01,190 --> 06:21:58,558

the point that we are here today

4822

06:22:02,690 --> 06:22:01,200

my last question for you would be do you

4823

06:22:04,788 --> 06:22:02,700

have any fun Traditions or any

4824

06:22:06,288 --> 06:22:04,798

congratulatory cheer you do for your

4825

06:22:08,288 --> 06:22:06,298

team

4826
06:22:10,670 --> 06:22:08,298
uh we haven't really thought about that

4827
06:22:12,890 --> 06:22:10,680
that's okay that's okay

4828
06:22:14,990 --> 06:22:12,900
we'd just love to ask um I'm sure that

4829
06:22:17,090 --> 06:22:15,000
your team has a great morale a great

4830
06:22:19,070 --> 06:22:17,100
teamwork um we're excited to see you

4831
06:22:20,930 --> 06:22:19,080
guys on the course we want you guys to

4832
06:22:23,270 --> 06:22:20,940
go cheer on your team um it looks like

4833
06:22:24,650 --> 06:22:23,280
they are about to start we actually have

4834
06:22:26,390 --> 06:22:24,660
our colleague Beth with them right now

4835
06:22:28,310 --> 06:22:26,400
at the start line so I am actually going

4836
06:22:30,170 --> 06:22:28,320
to be passing it to her to ask them some

4837
06:22:32,390 --> 06:22:30,180
questions uh your Pilots so we'll pass

4838
06:22:34,548 --> 06:22:32,400

it to her Beth

4839

06:22:37,850 --> 06:22:34,558

thanks so much I am here with the pilots

4840

06:22:39,770 --> 06:22:37,860

and I am hearing about the will Saga and

4841

06:22:41,330 --> 06:22:39,780

the trauma and you know what it's a

4842

06:22:43,368 --> 06:22:41,340

roller coaster of emotions but that's

4843

06:22:45,948 --> 06:22:43,378

what we're here for just to learn and

4844

06:22:48,230 --> 06:22:45,958

learn from our our not necessarily

4845

06:22:50,030 --> 06:22:48,240

failures but just to learn right uh so

4846

06:22:52,010 --> 06:22:50,040

can you tell me your name uh Makaya

4847

06:22:53,810 --> 06:22:52,020

Humphrey I am Micaiah what is your major

4848

06:22:56,208 --> 06:22:53,820

in college a mechanical engineering

4849

06:22:58,190 --> 06:22:56,218

technology fantastic and you sir I'm

4850

06:22:59,570 --> 06:22:58,200

Zachary Holmes and my major is

4851
06:23:01,548 --> 06:22:59,580
mechanical engineering

4852
06:23:03,770 --> 06:23:01,558
getting a Mechanicals engineering here

4853
06:23:05,270 --> 06:23:03,780
so I think this is a really fun steering

4854
06:23:07,010 --> 06:23:05,280
mechanism here and you have your

4855
06:23:08,390 --> 06:23:07,020
stopwatch there that's one of the things

4856
06:23:10,190 --> 06:23:08,400
that I've talked to a lot of teens about

4857
06:23:12,350 --> 06:23:10,200
today it's just the timing of everything

4858
06:23:13,670 --> 06:23:12,360
so now that you have your wheels fixed

4859
06:23:15,230 --> 06:23:13,680
what are you going to do to kind of

4860
06:23:17,930 --> 06:23:15,240
strategize getting there and getting

4861
06:23:19,670 --> 06:23:17,940
across the Finish Line in time honestly

4862
06:23:22,128 --> 06:23:19,680
we're just trying to get over a few

4863
06:23:23,810 --> 06:23:22,138

obstacles we think we can uh go around

4864

06:23:24,890 --> 06:23:23,820

the ones that we can't and hopefully we

4865

06:23:27,470 --> 06:23:24,900

can get to the Finish Line in under

4866

06:23:28,850 --> 06:23:27,480

eight minutes that that's the goal and

4867

06:23:31,430 --> 06:23:28,860

is there anything that you guys are

4868

06:23:33,590 --> 06:23:31,440

doing right now we're having some some

4869

06:23:35,390 --> 06:23:33,600

fun issues we have a shoe that's kind of

4870

06:23:38,090 --> 06:23:35,400

stuck here to the pedal but as you told

4871

06:23:40,610 --> 06:23:38,100

me earlier it's better to be stuck into

4872

06:23:43,010 --> 06:23:40,620

the pedal than stuck out of it and to be

4873

06:23:45,110 --> 06:23:43,020

honest the exact opposite of what I

4874

06:23:47,208 --> 06:23:45,120

thought was gonna happen we thought that

4875

06:23:49,368 --> 06:23:47,218

this would break and we'd take the pedal

4876
06:23:51,170 --> 06:23:49,378
with my foot but I guess instead we're

4877
06:23:52,690 --> 06:23:51,180
going to take my foot with the pedal you

4878
06:23:54,948 --> 06:23:52,700
know we'll take it all

4879
06:23:56,510 --> 06:23:54,958
we have some other teams out on the

4880
06:23:58,128 --> 06:23:56,520
course today have you been watching how

4881
06:24:00,410 --> 06:23:58,138
other teams have been tackling this or

4882
06:24:01,910 --> 06:24:00,420
just focusing mostly on your own we've

4883
06:24:03,410 --> 06:24:01,920
mostly been focusing on our own we have

4884
06:24:04,788 --> 06:24:03,420
been looking at other teams in the

4885
06:24:06,470 --> 06:24:04,798
meantime we've been looking at a lot of

4886
06:24:08,150 --> 06:24:06,480
their designs as well because we're

4887
06:24:11,930 --> 06:24:08,160
trying to incorporate suspension into

4888
06:24:13,250 --> 06:24:11,940

next year but the big thing is we know a

4889

06:24:16,910 --> 06:24:13,260

lot of the teams that we've seen are

4890

06:24:20,830 --> 06:24:16,920

heavier Rovers 200 300 plus pounds we

4891

06:24:23,270 --> 06:24:20,840

have a very light frame at 152 so we're

4892

06:24:25,128 --> 06:24:23,280

trying to keep high speed because we

4893

06:24:28,310 --> 06:24:25,138

have very good drivetrain system for it

4894

06:24:30,708 --> 06:24:28,320

and hit what we can fast hit it hard get

4895

06:24:32,208 --> 06:24:30,718

over it quick and move on yeah it's all

4896

06:24:33,770 --> 06:24:32,218

about strategy it's not so much about

4897

06:24:35,570 --> 06:24:33,780

speed but just about what you can hit

4898

06:24:37,490 --> 06:24:35,580

what you can do and and then also

4899

06:24:39,708 --> 06:24:37,500

learning a lot about your Rover now is

4900

06:24:42,530 --> 06:24:39,718

this your first time here this is the

4901
06:24:44,390 --> 06:24:42,540
first time down at competition but all

4902
06:24:46,610 --> 06:24:44,400
together our campus has been here I

4903
06:24:48,770 --> 06:24:46,620
think since the third year oh fantastic

4904
06:24:51,650 --> 06:24:48,780
now nature will be year 30 are you guys

4905
06:24:53,930 --> 06:24:51,660
planning on coming back yes we will

4906
06:24:55,670 --> 06:24:53,940
love to see it all right Alyssa and

4907
06:24:57,590 --> 06:24:55,680
Lance this team looks like they're ready

4908
06:24:59,030 --> 06:24:57,600
to go we'll get them counted down in

4909
06:25:01,190 --> 06:24:59,040
just a few minutes and we'll throw it

4910
06:25:04,070 --> 06:25:01,200
right back to you

4911
06:25:05,330 --> 06:25:04,080
thank you Beth we love seeing these

4912
06:25:07,310 --> 06:25:05,340
teams we're having a great time here in

4913
06:25:09,590 --> 06:25:07,320

the booth but unfortunately Lance and I

4914

06:25:10,970 --> 06:25:09,600

commentary is coming to an end for the

4915

06:25:13,010 --> 06:25:10,980

day but that does not mean that you need

4916

06:25:15,110 --> 06:25:13,020

to go anywhere we are going to be

4917

06:25:17,930 --> 06:25:15,120

streaming the live Rover action here in

4918

06:25:19,910 --> 06:25:17,940

the Rocket City USA for the rest of the

4919

06:25:21,830 --> 06:25:19,920

day until we get through the last Rover

4920

06:25:23,750 --> 06:25:21,840

so do not go anywhere we're gonna have

4921

06:25:25,070 --> 06:25:23,760

the starting line reporter Beth we're

4922

06:25:26,150 --> 06:25:25,080

gonna have her there we're gonna have

4923

06:25:28,788 --> 06:25:26,160

some other people at the start line

4924

06:25:29,690 --> 06:25:28,798

today interviewing the teams there so

4925

06:25:32,090 --> 06:25:29,700

don't feel like you're going to be

4926
06:25:34,368 --> 06:25:32,100
missing out on anything I also want to

4927
06:25:35,990 --> 06:25:34,378
mention that the award ceremony is this

4928
06:25:38,448 --> 06:25:36,000
evening and Lance where can they watch

4929
06:25:46,010 --> 06:25:43,448
to as well as our Facebook is the um

4930
06:25:49,368 --> 06:25:46,020
yeah I was gonna say NASA Marshall space

4931
06:25:51,590 --> 06:25:49,378
flight center YouTube and Facebook

4932
06:25:55,910 --> 06:25:51,600
and Twitter follow us on Twitter yes

4933
06:25:55,920 --> 06:26:01,670
so you could see some live updates

4934
06:26:05,330 --> 06:26:03,650
we love seeing those

4935
06:26:08,208 --> 06:26:05,340
um that that awards ceremony we're gonna

4936
06:26:13,850 --> 06:26:10,850
on the course but awards that people can

4937
06:26:15,530 --> 06:26:13,860
win for social media stem engagement

4938
06:26:17,030 --> 06:26:15,540

um and the awards they do win on the

4939

06:26:19,250 --> 06:26:17,040

course I want to remind everyone it's

4940

06:26:22,490 --> 06:26:19,260

not the time that they get on the course

4941

06:26:24,410 --> 06:26:22,500

these teams must complete the race in um

4942

06:26:25,910 --> 06:26:24,420

eight minutes but it's not the points

4943

06:26:28,250 --> 06:26:25,920

they collect in those eight minutes

4944

06:26:30,170 --> 06:26:28,260

those ten obstacles those five tasks

4945

06:26:31,910 --> 06:26:30,180

that

4946

06:26:33,830 --> 06:26:31,920

um and and Lance can you tell us just

4947

06:26:35,510 --> 06:26:33,840

one more time about the teams how many

4948

06:26:40,610 --> 06:26:35,520

teams do we have where are they from oh

4949

06:26:43,548 --> 06:26:40,620

yes we have 48 teams uh 16 uh those

4950

06:26:46,128 --> 06:26:43,558

teams uh rip oil some what is it 16

4951
06:26:49,010 --> 06:26:46,138
states are representative 16 States and

4952
06:26:50,570 --> 06:26:49,020
we have eight uh Nations uh representing

4953
06:26:52,970 --> 06:26:50,580
the International Community and we're

4954
06:26:56,090 --> 06:26:52,980
just so glad to have them here in North

4955
06:26:59,030 --> 06:26:56,100
Alabama Rocket City

4956
06:27:01,010 --> 06:26:59,040
Marshall space flight center yes we have

4957
06:27:02,330 --> 06:27:01,020
high school we have

4958
06:27:06,110 --> 06:27:02,340
seen these high school High School too

4959
06:27:09,948 --> 06:27:07,850
teams universities

4960
06:27:11,750 --> 06:27:09,958
just from across the world it's amazing

4961
06:27:13,190 --> 06:27:11,760
to see and you know some of these even

4962
06:27:14,690 --> 06:27:13,200
high school students they're they're not

4963
06:27:16,970 --> 06:27:14,700

even in the same high school they're

4964

06:27:19,970 --> 06:27:16,980

coming from counties and coming together

4965

06:27:23,090 --> 06:27:19,980

for this uh we love seeing it we have

4966

06:27:25,788 --> 06:27:23,100

loved hosting this here at the U.S space

4967

06:27:28,430 --> 06:27:25,798

we had a chance to talk to a parent on

4968

06:27:31,430 --> 06:27:28,440

one of our breaks and he was so inspired

4969

06:27:33,948 --> 06:27:31,440

with his son's participation and and the

4970

06:27:35,690 --> 06:27:33,958

opportunities that they have here uh

4971

06:27:38,030 --> 06:27:35,700

here at this uh competition or this

4972

06:27:40,670 --> 06:27:38,040

challenge so those are just the moments

4973

06:27:42,650 --> 06:27:40,680

that we live for yeah absolutely so from

4974

06:27:44,330 --> 06:27:42,660

Lance and I hear uh NASA's Marshall

4975

06:27:46,190 --> 06:27:44,340

space flight center the U.S Space and

4976
06:27:48,410 --> 06:27:46,200
Rocket Center where we're at today this

4977
06:27:50,330 --> 06:27:48,420
is the 2023 human exploration Rover

4978
06:27:52,548 --> 06:27:50,340
challenge reminding you again we are

4979
06:27:53,930 --> 06:27:52,558
going to continuing to show The Rovers

4980
06:27:55,910 --> 06:27:53,940
throughout the day we're going to have

4981
06:27:58,010 --> 06:27:55,920
interviews at the start line

4982
06:28:00,650 --> 06:27:58,020
our commentary is done for the evening

4983
06:28:02,930 --> 06:28:00,660
so thank you for joining us absolutely

4984
06:28:20,150 --> 06:28:02,940
thank you and you have been watching

4985
06:28:20,160 --> 06:28:23,150
no sir

4986
06:28:23,160 --> 06:28:45,470
sir

4987
06:31:44,930 --> 06:30:26,270
foreign

4988
06:31:44,940 --> 06:32:13,548

laughs

4989

06:32:13,558 --> 06:33:46,128

all expenses

4990

06:33:46,138 --> 06:33:50,330

oh really oh okay

4991

06:33:53,030 --> 06:33:51,470

told me

4992

06:34:03,530 --> 06:33:53,040

none of the teams are allowed to like

4993

06:34:03,540 --> 06:35:02,030

that's probably it I didn't notice

4994

06:35:02,040 --> 06:35:04,570

foreign

4995

06:35:08,390 --> 06:35:06,650

exploration Rover challenge here in

4996

06:35:10,730 --> 06:35:08,400

Huntsville Alabama at the U.S Basin

4997

06:35:12,470 --> 06:35:10,740

Rocket Center Aviation challenge I'm

4998

06:35:14,690 --> 06:35:12,480

here with the next team at the starting

4999

06:35:16,430 --> 06:35:14,700

line can you tell me your name and what

5000

06:35:18,530 --> 06:35:16,440

school you're from hello my name is

5001

06:35:20,690 --> 06:35:18,540

Javier and we are the team from

5002

06:35:22,010 --> 06:35:20,700

University of Utah our team name is

5003

06:35:25,310 --> 06:35:22,020

projectores

5004

06:35:26,628 --> 06:35:25,320

oh that's fantastic and so um tell me a

5005

06:35:28,010 --> 06:35:26,638

little bit about the design that you

5006

06:35:29,750 --> 06:35:28,020

guys did here you learned a little

5007

06:35:33,288 --> 06:35:29,760

lessons from yesterday is that right

5008

06:35:35,930 --> 06:35:33,298

yeah yesterday was not as we expected

5009

06:35:40,390 --> 06:35:35,940

but the thing is the the pedal got out

5010

06:35:44,868 --> 06:35:40,400

so we managed to solve it well I hope so

5011

06:35:49,670 --> 06:35:44,878

but we have learned uh some new lessons

5012

06:35:51,708 --> 06:35:49,680

and well gave advices to our Pilots so I

5013

06:35:56,810 --> 06:35:51,718

hope they can manage this time to do it

5014

06:35:58,730 --> 06:35:56,820

we are confident so well I hope you have

5015

06:36:00,048 --> 06:35:58,740

a big cheering section here it seems

5016

06:36:04,368 --> 06:36:00,058

like you have a lot of people on your

5017

06:36:06,830 --> 06:36:04,378

team yeah we've come 21 and two advisors

5018

06:36:09,410 --> 06:36:06,840

so well we are a lot

5019

06:36:11,270 --> 06:36:09,420

um I'm so grateful that they are here

5020

06:36:13,610 --> 06:36:11,280

um and I'm so grateful with our sponsors

5021

06:36:15,170 --> 06:36:13,620

too we couldn't do this without them

5022

06:36:16,788 --> 06:36:15,180

yeah and are there any that you would

5023

06:36:20,208 --> 06:36:16,798

like to think

5024

06:36:22,850 --> 06:36:20,218

well um I would like to thank my family

5025

06:36:26,270 --> 06:36:22,860

for all the support and all these teams

5026

06:36:29,448 --> 06:36:26,280

they've all worked so hard through this

5027

06:36:31,670 --> 06:36:29,458

well summer in the South atmosphere and

5028

06:36:34,430 --> 06:36:31,680

well these two pilots that they are

5029

06:36:36,470 --> 06:36:34,440

going to give all they have today yeah

5030

06:36:37,788 --> 06:36:36,480

so how did they train for this

5031

06:36:42,048 --> 06:36:37,798

well

5032

06:36:45,530 --> 06:36:42,058

um a gym gave us a facility so they

5033

06:36:48,010 --> 06:36:45,540

could go for free and they have to make

5034

06:36:52,730 --> 06:36:48,020

a lot of leg workout

5035

06:36:54,110 --> 06:36:52,740

also for the arms and well also mentally

5036

06:36:56,330 --> 06:36:54,120

and coordination

5037

06:36:58,250 --> 06:36:56,340

fantastic well I wish you guys the best

5038

06:37:21,010 --> 06:36:58,260

of luck today and thank you so much for

5039

06:37:21,020 --> 06:40:44,270

Get Ready Get Set Go

5040

06:45:14,900 --> 06:41:50,628

foreign

5041

06:45:14,910 --> 06:46:15,850

[Music]

5042

06:46:15,860 --> 06:47:29,990

that's all right

5043

06:47:30,000 --> 06:48:06,530

or

5044

06:48:06,540 --> 06:49:13,788

hey hey

5045

06:49:13,798 --> 06:49:57,650

huh

5046

06:49:57,660 --> 06:50:41,208

foreign

5047

06:50:47,500 --> 06:50:42,410

excited

5048

06:50:55,150 --> 06:50:49,430

[Music]

5049

06:50:55,160 --> 06:51:03,770

40 seconds remaining come on

5050

06:51:03,780 --> 06:52:17,150

30 seconds

5051
06:57:28,910 --> 06:55:01,430
foreign

5052
06:57:28,920 --> 06:58:29,810
thank you

5053
07:01:10,850 --> 06:59:46,910
foreign

5054
07:02:40,180 --> 07:01:45,590
okay

5055
07:02:40,190 --> 07:03:00,530
[Music]

5056
07:03:00,540 --> 07:03:37,780
the cart behind him looks like

5057
07:03:37,790 --> 07:03:56,930
[Music]

5058
07:04:00,890 --> 07:03:59,150
all right we are here with another team

5059
07:04:03,708 --> 07:04:00,900
on the starting line at the human

5060
07:04:05,570 --> 07:04:03,718
exploration Rover challenge very excited

5061
07:04:08,090 --> 07:04:05,580
to have both of you guys here and the

5062
07:04:09,770 --> 07:04:08,100
pilots as well so can you uh tell me

5063
07:04:12,288 --> 07:04:09,780

your names and and what school you're

5064

07:04:14,990 --> 07:04:12,298

representing uh hi my name is Cynthia

5065

07:04:17,930 --> 07:04:15,000

here is Sebastian and Martin we're

5066

07:04:20,090 --> 07:04:17,940

representing Universe we're from Peru

5067

07:04:21,770 --> 07:04:20,100

we're so excited to be here yeah you

5068

07:04:23,390 --> 07:04:21,780

guys brought the drums you brought uh

5069

07:04:25,910 --> 07:04:23,400

some mascots it looks like over there

5070

07:04:28,010 --> 07:04:25,920

and uh tell me a little bit about how

5071

07:04:30,410 --> 07:04:28,020

you're planning to tackle this court

5072

07:04:34,310 --> 07:04:30,420

how we're planning to tackle this car as

5073

07:04:35,930 --> 07:04:34,320

well I will see where our main goal

5074

07:04:38,990 --> 07:04:35,940

right now is to complete it in eight

5075

07:04:42,230 --> 07:04:39,000

minutes to be part of the overall score

5076
07:04:44,448 --> 07:04:42,240
but if we have the time the right time

5077
07:04:46,548 --> 07:04:44,458
we're going to pass it through up some

5078
07:04:48,708 --> 07:04:46,558
obstacles but yeah this is our first

5079
07:04:51,708 --> 07:04:48,718
time in the competition so completing

5080
07:04:54,288 --> 07:04:51,718
even the the whole course is Excursion

5081
07:04:56,030 --> 07:04:54,298
is a lot for us yeah yeah I mean some

5082
07:04:58,070 --> 07:04:56,040
some teams just get here to finish and

5083
07:04:58,910 --> 07:04:58,080
we've learned a lot of lessons along the

5084
07:04:59,930 --> 07:04:58,920
way

5085
07:05:01,430 --> 07:04:59,940
um what are some of the things that

5086
07:05:03,650 --> 07:05:01,440
you've learned even just about being

5087
07:05:05,930 --> 07:05:03,660
having a big team and working with a big

5088
07:05:07,910 --> 07:05:05,940

team like that well I don't know if you

5089

07:05:12,170 --> 07:05:07,920

can picture all of them we're like 30

5090

07:05:15,890 --> 07:05:12,180

right now and we're like 70 in total so

5091

07:05:18,468 --> 07:05:15,900

it's really hard to manage all these

5092

07:05:20,570 --> 07:05:18,478

people but they are so amazing so

5093

07:05:23,570 --> 07:05:20,580

brilliant smart and

5094

07:05:26,628 --> 07:05:23,580

without each of them this wouldn't even

5095

07:05:28,548 --> 07:05:26,638

be possible of every area not just the

5096

07:05:31,330 --> 07:05:28,558

mechanical design of manufacturing even

5097

07:05:33,830 --> 07:05:31,340

marketing and same guys

5098

07:05:37,090 --> 07:05:33,840

those are all amazing Electronics we

5099

07:05:41,208 --> 07:05:37,100

also have electronics for safety they're

5100

07:05:43,128 --> 07:05:41,218

evaluating biomedical parameters and we

5101
07:05:45,410 --> 07:05:43,138
also have communication with them not

5102
07:05:47,390 --> 07:05:45,420
via Wi-Fi that isn't common thing

5103
07:05:49,430 --> 07:05:47,400
because in Mars we wouldn't have that we

5104
07:05:51,890 --> 07:05:49,440
have that with some antenna that we are

5105
07:05:54,048 --> 07:05:51,900
going to be providing so yeah it's

5106
07:05:56,510 --> 07:05:54,058
pretty cool and we're really excited the

5107
07:05:58,610 --> 07:05:56,520
whole team is so exciting uh so how did

5108
07:06:00,288 --> 07:05:58,620
you get started in the the Rover program

5109
07:06:01,850 --> 07:06:00,298
is that something since this is your

5110
07:06:04,670 --> 07:06:01,860
first year here what how did you hear

5111
07:06:06,590 --> 07:06:04,680
about it uh it's not a I mean it's our

5112
07:06:09,590 --> 07:06:06,600
first time with a Rover but we've

5113
07:06:14,270 --> 07:06:09,600

participated before two times in 2019

5114

07:06:16,548 --> 07:06:14,280

and 2020. on 2019 we got a prize for uh

5115

07:06:18,468 --> 07:06:16,558

Telemetry if I'm not wrong and in 2020

5116

07:06:21,170 --> 07:06:18,478

for the design of the wheel this guy was

5117

07:06:24,650 --> 07:06:21,180

also for the guy in charge of the sign

5118

07:06:27,708 --> 07:06:24,660

of the roof of he's amazing and and now

5119

07:06:39,410 --> 07:06:27,718

but we couldn't be able to manufacture a

5120

07:06:49,968 --> 07:06:41,048

and

5121

07:06:52,610 --> 07:06:49,978

good design about the the gearbox is it

5122

07:06:56,030 --> 07:06:52,620

has two shifts and two speeds and a

5123

07:06:57,530 --> 07:06:56,040

reverse I think this is our uh the best

5124

07:06:59,990 --> 07:06:57,540

part of our

5125

07:07:03,350 --> 07:07:00,000

fantastic and are there any sponsors

5126
07:07:07,670 --> 07:07:05,208
yeah

5127
07:07:09,590 --> 07:07:07,680
no no no no no no no no no that's

5128
07:07:11,270 --> 07:07:09,600
okay well I wish you guys the best of

5129
07:07:14,030 --> 07:07:11,280
luck I hope you guys do awesome you're

5130
07:07:16,310 --> 07:07:14,040
going to be fantastic get out there on

5131
07:07:18,468 --> 07:07:16,320
the course make it happen and we want to

5132
07:07:29,868 --> 07:07:18,478
thank everybody

5133
07:07:33,468 --> 07:07:31,730
all right that's team Peru they will be

5134
07:07:36,288 --> 07:07:33,478
taking the course here in just a few

5135
07:07:38,690 --> 07:07:36,298
minutes and we are very excited to see

5136
07:07:42,708 --> 07:07:40,368
we'll be streaming live here for the

5137
07:08:33,590 --> 07:07:42,718
rest of the day until 4 P.M at the human

5138
07:08:33,600 --> 07:11:05,628

foreign

5139

07:11:09,830 --> 07:11:07,968

we are here at the human exploration

5140

07:11:11,810 --> 07:11:09,840

Rover Challenge and I'm here with the

5141

07:11:13,250 --> 07:11:11,820

University of West Florida they're at

5142

07:11:14,930 --> 07:11:13,260

the starting line we've had a lot of

5143

07:11:17,208 --> 07:11:14,940

teams come on the course these past

5144

07:11:19,430 --> 07:11:17,218

couple of hours and you guys this is

5145

07:11:20,990 --> 07:11:19,440

your first time on the course uh tell me

5146

07:11:22,670 --> 07:11:21,000

a little bit about some of the obstacles

5147

07:11:24,650 --> 07:11:22,680

before you tackle these what are some of

5148

07:11:27,350 --> 07:11:24,660

the obstacles you've overcome right now

5149

07:11:30,650 --> 07:11:27,360

oh man so the the greatest thing about

5150

07:11:33,770 --> 07:11:30,660

this Rover is it is 90 to 95 designed

5151

07:11:36,170 --> 07:11:33,780

and built by us the students which in

5152

07:11:38,810 --> 07:11:36,180

itself is a feat um we're blessed to

5153

07:11:41,868 --> 07:11:38,820

have been able to have that experience

5154

07:11:43,310 --> 07:11:41,878

um honestly it's been a lot of we've had

5155

07:11:44,930 --> 07:11:43,320

to do the design work we've had to build

5156

07:11:50,150 --> 07:11:44,940

it ourselves and

5157

07:11:55,610 --> 07:11:52,250

has your your college come to this event

5158

07:11:57,468 --> 07:11:55,620

before uh we came five years ago so this

5159

07:11:59,030 --> 07:11:57,478

is our first time in five years so we

5160

07:12:00,830 --> 07:11:59,040

just came for the experience more than

5161

07:12:02,690 --> 07:12:00,840

anything else yeah I mean it's it's

5162

07:12:04,850 --> 07:12:02,700

basically a fresh start for most teams

5163

07:12:06,650 --> 07:12:04,860

because we have not been back since the

5164

07:12:08,868 --> 07:12:06,660

pandemic in four years live in person

5165

07:12:10,910 --> 07:12:08,878

and we're here in a whole new area we're

5166

07:12:12,530 --> 07:12:10,920

at the U.S Space and Rocket Center at

5167

07:12:14,510 --> 07:12:12,540

the aviation challenge so if you've

5168

07:12:17,090 --> 07:12:14,520

heard of space camp Aviation challenges

5169

07:12:19,788 --> 07:12:17,100

it's kind of a thing but for pilots and

5170

07:12:21,530 --> 07:12:19,798

so that's why you may see some aircrafts

5171

07:12:23,750 --> 07:12:21,540

around here as you go through the course

5172

07:12:26,208 --> 07:12:23,760

what did you guys do to train and

5173

07:12:27,708 --> 07:12:26,218

prepare for this honestly a lot of it

5174

07:12:29,330 --> 07:12:27,718

was

5175

07:12:31,128 --> 07:12:29,340

it's just a lot of work

5176
07:12:35,510 --> 07:12:31,138
um honestly the most training that we

5177
07:12:37,310 --> 07:12:35,520
got to do was just earlier

5178
07:12:38,990 --> 07:12:37,320
um we got to we got to Pedal it for the

5179
07:12:41,510 --> 07:12:39,000
first time and it was an incredible

5180
07:12:43,368 --> 07:12:41,520
sight and we're all very excited that we

5181
07:12:45,890 --> 07:12:43,378
have a working Rover

5182
07:12:47,510 --> 07:12:45,900
we do yeah yeah so talk to me you have

5183
07:12:50,330 --> 07:12:47,520
to do a little bit about stem engagement

5184
07:12:52,610 --> 07:12:50,340
here so how did you engage the stem

5185
07:12:55,250 --> 07:12:52,620
student yeah so actually

5186
07:12:57,230 --> 07:12:55,260
cool things that we do

5187
07:13:00,230 --> 07:12:57,240
that we did their parents work at the

5188
07:13:02,030 --> 07:13:00,240

gymnasium and so they went and worked

5189

07:13:05,510 --> 07:13:02,040

with a whole bunch of the younger kids

5190

07:13:08,150 --> 07:13:05,520

who are in gymnastics and were working

5191

07:13:09,770 --> 07:13:08,160

with them on how Aerospace and all of

5192

07:13:11,448 --> 07:13:09,780

these different principles apply to

5193

07:13:12,890 --> 07:13:11,458

something they love which is gymnastics

5194

07:13:14,448 --> 07:13:12,900

so all of those different things and

5195

07:13:17,090 --> 07:13:14,458

talking to them about how we design

5196

07:13:18,650 --> 07:13:17,100

stuff and all kinds of math and

5197

07:13:20,510 --> 07:13:18,660

everything I love that and because

5198

07:13:22,610 --> 07:13:20,520

you're inspiring the Next Generation and

5199

07:13:25,010 --> 07:13:22,620

you guys are the next Artemis generation

5200

07:13:27,410 --> 07:13:25,020

this we could have future astronauts

5201
07:13:29,090 --> 07:13:27,420
coming through through here you know and

5202
07:13:31,610 --> 07:13:29,100
tell me a little bit about your Rover

5203
07:13:33,230 --> 07:13:31,620
you don't get to space without having a

5204
07:13:34,548 --> 07:13:33,240
little bit of creativity what some of

5205
07:13:36,890 --> 07:13:34,558
the things that you guys did to make

5206
07:13:39,708 --> 07:13:36,900
your Rover creative so like I said

5207
07:13:42,350 --> 07:13:39,718
earlier it was it was 90 to 95 designed

5208
07:13:44,090 --> 07:13:42,360
by us so I can speak personally to this

5209
07:13:47,110 --> 07:13:44,100
because I was actually the cad lead for

5210
07:13:50,090 --> 07:13:47,120
this so a lot of it was putting it into

5211
07:13:52,510 --> 07:13:50,100
various simulations and figuring out how

5212
07:13:55,850 --> 07:13:52,520
things would work these wheels are 100

5213
07:13:58,788 --> 07:13:55,860

designed by us those those pieces that

5214

07:14:02,570 --> 07:13:58,798

you see were were mathematically created

5215

07:14:04,010 --> 07:14:02,580

by us so it was a lot of figuring out

5216

07:14:06,650 --> 07:14:04,020

how to apply the things that we learned

5217

07:14:08,090 --> 07:14:06,660

in class to the real world yeah and you

5218

07:14:09,890 --> 07:14:08,100

know you always say when am I ever going

5219

07:14:11,570 --> 07:14:09,900

to use this well now you're using it

5220

07:14:13,490 --> 07:14:11,580

right yeah

5221

07:14:15,708 --> 07:14:13,500

and you don't get here without a little

5222

07:14:17,270 --> 07:14:15,718

bit of help from sponsors parents other

5223

07:14:20,030 --> 07:14:17,280

people like that is there anyone you'd

5224

07:14:21,770 --> 07:14:20,040

like to thank honestly uh first of all

5225

07:14:24,230 --> 07:14:21,780

I'd love to thank our school in general

5226

07:14:25,850 --> 07:14:24,240

they've been super supportive of us uh

5227

07:14:28,190 --> 07:14:25,860

after pulling late nights and everything

5228

07:14:29,690 --> 07:14:28,200

I got many extensions on homework which

5229

07:14:31,250 --> 07:14:29,700

we appreciate

5230

07:14:33,468 --> 07:14:31,260

um and then also our various family

5231

07:14:35,448 --> 07:14:33,478

members and Friends most of us haven't

5232

07:14:38,570 --> 07:14:35,458

slept in a couple of days so we are just

5233

07:14:41,330 --> 07:14:38,580

so thankful for the love and support of

5234

07:14:43,430 --> 07:14:41,340

everyone who's behind us so oh fantastic

5235

07:14:46,310 --> 07:14:43,440

well I hope you guys do amazing on there

5236

07:14:49,430 --> 07:14:46,320

we're going to count you down and uh hit

5237

07:15:59,930 --> 07:14:49,440

the court have a good one thank you so

5238

07:15:59,940 --> 07:17:14,890

let's finish

5239

07:17:14,900 --> 07:19:36,770

I can't see it

5240

07:19:36,780 --> 07:20:45,530

oh

5241

07:20:45,540 --> 07:20:53,590

foreign

5242

07:20:59,270 --> 07:20:56,570

now we have Auburn University with us

5243

07:21:01,850 --> 07:20:59,280

and tell me your name and tell me how

5244

07:21:03,230 --> 07:21:01,860

yesterday went my name is Charles ranero

5245

07:21:04,730 --> 07:21:03,240

uh

5246

07:21:09,230 --> 07:21:04,740

we

5247

07:21:10,270 --> 07:21:09,240

constant issues with the tension in the

5248

07:21:13,788 --> 07:21:10,280

belts

5249

07:21:16,070 --> 07:21:13,798

and we spent all day yesterday after we

5250

07:21:18,830 --> 07:21:16,080

were done working on that and all day

5251
07:21:20,570 --> 07:21:18,840
today and then uh the reason we're

5252
07:21:22,368 --> 07:21:20,580
competing a little bit later than our

5253
07:21:24,708 --> 07:21:22,378
scheduled start time is because we had

5254
07:21:26,990 --> 07:21:24,718
some unexpected last minute issues with

5255
07:21:28,910 --> 07:21:27,000
that front axle so we were able to get

5256
07:21:31,730 --> 07:21:28,920
that figured out and we feel moderately

5257
07:21:33,890 --> 07:21:31,740
confident right now so yeah okay you

5258
07:21:35,750 --> 07:21:33,900
can't giggle about that all right now

5259
07:21:37,250 --> 07:21:35,760
tell me your name and tell me any uh

5260
07:21:38,448 --> 07:21:37,260
different strategies for today I know

5261
07:21:39,948 --> 07:21:38,458
yesterday was a lot of just sort of

5262
07:21:42,708 --> 07:21:39,958
getting the lay of the land

5263
07:21:43,910 --> 07:21:42,718

my name is Emily Broome and our strategy

5264

07:21:46,250 --> 07:21:43,920

today we're really just trying to

5265

07:21:47,868 --> 07:21:46,260

prioritize task number one yesterday we

5266

07:21:49,250 --> 07:21:47,878

pulled up to it to try to attempt it and

5267

07:21:50,628 --> 07:21:49,260

we were too far away so we're gonna try

5268

07:21:52,670 --> 07:21:50,638

to really get over left so that way we

5269

07:21:54,830 --> 07:21:52,680

can reach it and try to get our points

5270

07:21:57,110 --> 07:21:54,840

there and then if we get stuck on any

5271

07:21:58,910 --> 07:21:57,120

obstacles our plan just to get out and

5272

07:22:00,708 --> 07:21:58,920

pull ourselves over quickly to eliminate

5273

07:22:02,750 --> 07:22:00,718

that uh waste of time we had yesterday

5274

07:22:07,810 --> 07:22:02,760

awesome and I hear you're gonna start

5275

07:22:07,820 --> 07:22:22,250

[Music]

5276
07:22:28,430 --> 07:22:25,850
awesome thank you so much now we are

5277
07:22:30,230 --> 07:22:28,440
about to uh uh count them down to get

5278
07:22:32,448 --> 07:22:30,240
them on their starting line but just a

5279
07:22:34,670 --> 07:22:32,458
reminder that the award ceremony is

5280
07:22:38,090 --> 07:22:34,680
streaming on NASA Marshall's Facebook

5281
07:22:39,770 --> 07:22:38,100
tonight at 5pm for those winners um of

5282
07:22:41,750 --> 07:22:39,780
this it's not even just a two-day

5283
07:22:43,430 --> 07:22:41,760
challenge it is a almost a year-long

5284
07:22:45,590 --> 07:22:43,440
challenge so again that's on NASA's

5285
07:22:48,530 --> 07:22:45,600
Marshall Facebook channel that we can

5286
07:22:50,570 --> 07:22:48,540
stream that live but for NASA Marshall

5287
07:22:51,948 --> 07:22:50,580
space flight center I'm Lauren Perkins

5288
07:22:53,990 --> 07:22:51,958

and we're going to go ahead and get

5289

07:25:57,350 --> 07:22:54,000

Auburn University counted down on the

5290

07:25:57,360 --> 07:26:50,270

foreign

5291

07:26:54,590 --> 07:26:52,070

welcome back live from the starting line

5292

07:26:57,350 --> 07:26:54,600

at NASA's human exploration Rover

5293

07:26:59,270 --> 07:26:57,360

challenge we have with us a team from

5294

07:27:01,190 --> 07:26:59,280

the Dominican Republic and what school

5295

07:27:02,890 --> 07:27:01,200

are you with we are from Institute

5296

07:27:05,270 --> 07:27:02,900

specialization

5297

07:27:07,368 --> 07:27:05,280

wonderful and tell me a little bit how

5298

07:27:09,350 --> 07:27:07,378

yesterday went well yesterday was an

5299

07:27:11,570 --> 07:27:09,360

amazing day we all met a lot of people

5300

07:27:13,548 --> 07:27:11,580

from different country we also went to

5301
07:27:15,230 --> 07:27:13,558
the peach crew and we recognized a lot

5302
07:27:17,690 --> 07:27:15,240
of things and that was an amazing day

5303
07:27:20,390 --> 07:27:17,700
meeting people and working with our

5304
07:27:22,190 --> 07:27:20,400
project as well and how how are y'all

5305
07:27:23,930 --> 07:27:22,200
feeling about the Rover today what's the

5306
07:27:26,090 --> 07:27:23,940
plan well we're for the for the war as

5307
07:27:27,350 --> 07:27:26,100
we said so we'll feel prepared today we

5308
07:27:29,570 --> 07:27:27,360
are here representing our country

5309
07:27:32,448 --> 07:27:29,580
Dominican Republic also our school

5310
07:27:34,250 --> 07:27:32,458
Loyola and our attorneys like a group of

5311
07:27:37,430 --> 07:27:34,260
city and in detail so we're ready to

5312
07:27:39,410 --> 07:27:37,440
represent so as Dominican we are how has

5313
07:27:41,030 --> 07:27:39,420

the whole process been I mean I imagine

5314

07:27:43,250 --> 07:27:41,040

there's a lot of team bonding a lot of

5315

07:27:45,288 --> 07:27:43,260

travel not a lot of sleep maybe yeah

5316

07:27:47,208 --> 07:27:45,298

you're right you're right uh we felt I

5317

07:27:49,190 --> 07:27:47,218

mean the last months we were sleeping

5318

07:27:51,110 --> 07:27:49,200

pretty late but at the end of the day we

5319

07:27:53,570 --> 07:27:51,120

were always happy there'll be jokes all

5320

07:27:55,368 --> 07:27:53,580

the funny moments was pretty amazing as

5321

07:27:58,430 --> 07:27:55,378

always a hard work they're gonna be a

5322

07:28:00,410 --> 07:27:58,440

good moment I will so we feel good y'all

5323

07:28:02,330 --> 07:28:00,420

ready to race we're ready ready for the

5324

07:29:04,910 --> 07:28:02,340

challenge all right well we will go

5325

07:30:36,560 --> 07:29:48,770

foreign

5326

07:31:43,610 --> 07:30:52,220

[Music]

5327

07:34:13,730 --> 07:32:37,850

foreign

5328

07:34:13,740 --> 07:35:49,070

thank you

5329

07:37:27,730 --> 07:37:22,610

foreign

5330

07:37:27,740 --> 07:38:34,730

[Applause]