



1
00:01:19,970 --> 00:00:34,950
[Music]

2
00:01:24,070 --> 00:01:19,980
we are go for launch

3
00:01:31,830 --> 00:01:27,990
t-10 10 9 8

4
00:01:35,030 --> 00:01:31,840
7 6 5 4

5
00:01:36,870 --> 00:01:35,040
3 2 1.

6
00:01:38,149 --> 00:01:36,880
welcome back to the nasa social for the

7
00:02:12,380 --> 00:01:38,159
crew dragon mission

8
00:02:12,390 --> 00:02:20,830
[Music]

9
00:02:24,390 --> 00:02:22,550
so

10
00:02:26,070 --> 00:02:24,400
welcome back ladies and gentlemen yves

11
00:02:29,110 --> 00:02:26,080
lamothe back here with you

12
00:02:31,030 --> 00:02:29,120
once again on this memorial day as

13
00:02:32,710 --> 00:02:31,040

if things couldn't get better we're l

14

00:02:33,509 --> 00:02:32,720
minus two before this launch on

15

00:02:35,589 --> 00:02:33,519
wednesday

16

00:02:37,670 --> 00:02:35,599
where we have historic launch of

17

00:02:39,030 --> 00:02:37,680
american astronauts on american soil on

18

00:02:41,990 --> 00:02:39,040
an american rocket

19

00:02:43,270 --> 00:02:42,000
i have this beautiful beautiful shuttle

20

00:02:44,869 --> 00:02:43,280
sitting right here behind me

21

00:02:47,110 --> 00:02:44,879
and if it couldn't get any better with

22

00:02:50,630 --> 00:02:47,120
me today is the one and only

23

00:02:53,509 --> 00:02:50,640
leland melvin oh my i get to sit here

24

00:02:55,270 --> 00:02:53,519
with um with what i would call a rock

25

00:02:57,830 --> 00:02:55,280
star of the space industry

26

00:02:59,670 --> 00:02:57,840

and online with me as well is charlie

27

00:03:02,390 --> 00:02:59,680

bolden our former

28

00:03:02,710 --> 00:03:02,400

nasa administrator and josh dobbs who is

29

00:03:06,070 --> 00:03:02,720

the

30

00:03:06,630 --> 00:03:06,080

jacksonville jaguars quarterback so if i

31

00:03:08,149 --> 00:03:06,640

want to get

32

00:03:09,670 --> 00:03:08,159

right into it because i know you guys

33

00:03:11,030 --> 00:03:09,680

are probably excited and have lots of

34

00:03:12,309 --> 00:03:11,040

questions that you want to ask them

35

00:03:14,149 --> 00:03:12,319

so i'm going to give them an opportunity

36

00:03:15,350 --> 00:03:14,159

to introduce themselves real quick and

37

00:03:16,630 --> 00:03:15,360

we're going to get on with the questions

38

00:03:18,470 --> 00:03:16,640

let me start off with

39

00:03:20,550 --> 00:03:18,480

leland leland how are we doing today eve

40

00:03:22,390 --> 00:03:20,560

i'm doing great and i'm so happy to be

41

00:03:25,270 --> 00:03:22,400

here we're going to be co-hosting the

42

00:03:26,070 --> 00:03:25,280

the whole launch the nasa uh launch uh

43

00:03:29,030 --> 00:03:26,080

before the

44

00:03:29,670 --> 00:03:29,040

4 30 launch of uh this incredible crew

45

00:03:33,030 --> 00:03:29,680

dragon

46

00:03:34,309 --> 00:03:33,040

on wednesday the 27th and i had a chance

47

00:03:36,869 --> 00:03:34,319

to work in

48

00:03:37,830 --> 00:03:36,879

nasa for 24 years and now i'm getting a

49

00:03:39,509 --> 00:03:37,840

chance to

50

00:03:41,110 --> 00:03:39,519

help inspire that next generation of

51
00:03:41,750 --> 00:03:41,120
explorers having flown in space two

52
00:03:44,830 --> 00:03:41,760
times

53
00:03:46,070 --> 00:03:44,840
on this bird back here atlantis in

54
00:03:49,350 --> 00:03:46,080
2008-2009

55
00:03:49,990 --> 00:03:49,360
and i was inspired by charlie bolden who

56
00:03:52,470 --> 00:03:50,000
told me

57
00:03:53,750 --> 00:03:52,480
in nasa headquarters he said you can't

58
00:03:56,229 --> 00:03:53,760
get into the core

59
00:03:58,149 --> 00:03:56,239
unless you apply you need to apply so i

60
00:04:01,350 --> 00:03:58,159
can't wait to talk to my good friend

61
00:04:02,550 --> 00:04:01,360
charlie bolden and hear from another nfl

62
00:04:06,229 --> 00:04:02,560
buddy qb

63
00:04:06,869 --> 00:04:06,239

josh dobbs phenomenal thank you so much

64

00:04:09,429 --> 00:04:06,879

leland

65

00:04:11,030 --> 00:04:09,439

and how about let's turn it over to um

66

00:04:12,710 --> 00:04:11,040

mr charlie bolden how are you doing

67

00:04:14,550 --> 00:04:12,720

today charlie yeah

68

00:04:16,390 --> 00:04:14,560

i'm doing well and i just want to say

69

00:04:19,670 --> 00:04:16,400

welcome to all the folk uh

70

00:04:21,270 --> 00:04:19,680

who pulled in for the soul uh you know

71

00:04:22,790 --> 00:04:21,280

this is one of my favorite things about

72

00:04:23,909 --> 00:04:22,800

launch is having people from all over

73

00:04:26,310 --> 00:04:23,919

the world who

74

00:04:26,950 --> 00:04:26,320

usually assemble down a psc and get an

75

00:04:28,950 --> 00:04:26,960

opportunity to

76

00:04:30,390 --> 00:04:28,960

see all the things we do and and then

77

00:04:31,830 --> 00:04:30,400

get to see a real launch and

78

00:04:34,230 --> 00:04:31,840

really pray that that's not happening

79

00:04:34,790 --> 00:04:34,240

this but it's great to be here with uh

80

00:04:37,270 --> 00:04:34,800

with my

81

00:04:38,550 --> 00:04:37,280

little neil and melvin at my soon-to-be

82

00:04:41,350 --> 00:04:38,560

hero josh dobbs

83

00:04:42,710 --> 00:04:41,360

uh talking to applying for the program

84

00:04:44,710 --> 00:04:42,720

get into space

85

00:04:45,909 --> 00:04:44,720

so uh look excited to have all your

86

00:04:48,390 --> 00:04:45,919

questions okay

87

00:04:49,830 --> 00:04:48,400

fantastic and before we carry on i do

88

00:04:52,070 --> 00:04:49,840

want to take the moment because um

89

00:04:54,390 --> 00:04:52,080

charlie is a fellow marine so ura

90

00:04:56,469 --> 00:04:54,400

semper fi and we definitely want to

91

00:04:59,270 --> 00:04:56,479

commemorate this memorial day

92

00:04:59,990 --> 00:04:59,280

by honoring someone like charlie who has

93

00:05:03,350 --> 00:05:00,000

served

94

00:05:05,029 --> 00:05:03,360

people

95

00:05:06,550 --> 00:05:05,039

as nasa administrator thank you so much

96

00:05:07,110 --> 00:05:06,560

for your service charlie thank you

97

00:05:11,590 --> 00:05:07,120

charlie

98

00:05:15,270 --> 00:05:11,600

thank you all right and now moving on to

99

00:05:16,950 --> 00:05:15,280

mr josh dobbs how you doing today josh

100

00:05:18,790 --> 00:05:16,960

i'm doing well uh thank you guys for

101
00:05:20,950 --> 00:05:18,800
having me first i wanted to say

102
00:05:22,469 --> 00:05:20,960
happy memorial day as we just said um

103
00:05:24,070 --> 00:05:22,479
i'm excited to get down and see the

104
00:05:26,870 --> 00:05:24,080
launch i got a chance to spend

105
00:05:27,430 --> 00:05:26,880
a little time at ksc back in february

106
00:05:29,990 --> 00:05:27,440
during an

107
00:05:31,909 --> 00:05:30,000
externship through the nfl va and got to

108
00:05:32,390 --> 00:05:31,919
put my aerospace engineering degree to

109
00:05:34,390 --> 00:05:32,400
use

110
00:05:36,310 --> 00:05:34,400
so i'm excited to get down to see my

111
00:05:37,590 --> 00:05:36,320
first launch

112
00:05:39,670 --> 00:05:37,600
going to kennedy space center for the

113
00:05:43,590 --> 00:05:39,680

first time on seven during the

114

00:05:45,350 --> 00:05:43,600

uh heat of the shuttle game for the new

115

00:05:47,510 --> 00:05:45,360

uh space age that's going on this would

116

00:05:48,310 --> 00:05:47,520

be the first fight from marist oil a

117

00:05:50,230 --> 00:05:48,320

long time

118

00:05:52,710 --> 00:05:50,240

uh it's gonna be an exciting day thank

119

00:05:54,790 --> 00:05:52,720

you guys for having me

120

00:05:56,070 --> 00:05:54,800

absolutely the honor really is ours and

121

00:05:57,189 --> 00:05:56,080

i'm pretty sure all the folks are going

122

00:05:58,870 --> 00:05:57,199

to appreciate just

123

00:06:00,230 --> 00:05:58,880

i'm hearing from all you guys now the

124

00:06:00,710 --> 00:06:00,240

first question that i have is going to

125

00:06:03,350 --> 00:06:00,720

be for

126

00:06:05,350 --> 00:06:03,360

for leland leland what do you think is

127

00:06:07,590 --> 00:06:05,360

the moment that you are going to be most

128

00:06:13,350 --> 00:06:07,600

excited about on wednesday

129

00:06:15,350 --> 00:06:13,360

oh my goodness uh you know 1098-7654321

130

00:06:17,110 --> 00:06:15,360

and to have those thoughts yeah those

131

00:06:17,990 --> 00:06:17,120

engines just rocking and rolling and

132

00:06:21,430 --> 00:06:18,000

thinking about

133

00:06:22,710 --> 00:06:21,440

us as americans launching a spacex

134

00:06:23,990 --> 00:06:22,720

commercial rocket

135

00:06:25,909 --> 00:06:24,000

with this partnership you know

136

00:06:26,950 --> 00:06:25,919

commercial crew partnership with nasa

137

00:06:28,710 --> 00:06:26,960

to get to the international space

138

00:06:30,469 --> 00:06:28,720

station and i think you know it's been

139

00:06:32,150 --> 00:06:30,479

this is the fifth vehicle

140

00:06:33,990 --> 00:06:32,160

that's been built and flown from

141

00:06:37,590 --> 00:06:34,000

american soil you know mercury gemini

142

00:06:38,629 --> 00:06:37,600

apollo shuttle and now spacex dragon and

143

00:06:39,909 --> 00:06:38,639

i think once we

144

00:06:41,670 --> 00:06:39,919

get there we're going to be just

145

00:06:44,950 --> 00:06:41,680

celebrating this most

146

00:06:47,029 --> 00:06:44,960

momentous occasion fantastic now charlie

147

00:06:48,469 --> 00:06:47,039

as a former nasa administrator what does

148

00:06:52,230 --> 00:06:48,479

it mean to you

149

00:06:53,189 --> 00:06:52,240

to see nasa partnering with commercial

150

00:06:56,150 --> 00:06:53,199

companies

151
00:06:57,510 --> 00:06:56,160
for such an effort and not only is it is

152
00:06:59,510 --> 00:06:57,520
it a beautiful effort to be able to

153
00:07:01,670 --> 00:06:59,520
launch from american soil

154
00:07:04,710 --> 00:07:01,680
but this is sort of like the first step

155
00:07:06,309 --> 00:07:04,720
to taking us back to the moon

156
00:07:07,909 --> 00:07:06,319
well i think it's really important first

157
00:07:09,909 --> 00:07:07,919
of all it's

158
00:07:11,510 --> 00:07:09,919
because we want to continue to be able

159
00:07:13,270 --> 00:07:11,520
to allow people

160
00:07:14,710 --> 00:07:13,280
would not ordinarily have an opportunity

161
00:07:16,950 --> 00:07:14,720
to get to space

162
00:07:18,469 --> 00:07:16,960
to do that and i'm excited about all the

163
00:07:19,350 --> 00:07:18,479

commercial entities whether we're

164

00:07:22,070 --> 00:07:19,360

talking about

165

00:07:22,710 --> 00:07:22,080

the slogan folk like virgin galactic and

166

00:07:24,790 --> 00:07:22,720

origin

167

00:07:26,390 --> 00:07:24,800

or whether talking about all folks like

168

00:07:28,830 --> 00:07:26,400

boeing and spacex

169

00:07:29,990 --> 00:07:28,840

it's really important to have capability

170

00:07:32,629 --> 00:07:30,000

again

171

00:07:34,870 --> 00:07:32,639

people who might not otherwise get an

172

00:07:37,510 --> 00:07:34,880

opportunity to go to school

173

00:07:38,870 --> 00:07:37,520

uh when we launch on opening that door

174

00:07:41,749 --> 00:07:38,880

again

175

00:07:43,189 --> 00:07:41,759

fantastic now you know both charlie and

176
00:07:43,990 --> 00:07:43,199
leland you guys have been around the

177
00:07:47,110 --> 00:07:44,000
space industry

178
00:07:48,309 --> 00:07:47,120
for for some years now either one of you

179
00:07:49,990 --> 00:07:48,319
can answer this question what do you

180
00:07:51,909 --> 00:07:50,000
expect to see changing in human space

181
00:07:53,589 --> 00:07:51,919
flight in the in the coming years

182
00:07:56,230 --> 00:07:53,599
and this is obviously maybe a little bit

183
00:07:58,629 --> 00:07:56,240
different from nasa's processes

184
00:07:59,270 --> 00:07:58,639
this is spacex who has the lead if you

185
00:08:01,189 --> 00:07:59,280
will on

186
00:08:02,710 --> 00:08:01,199
on getting those astronauts on the

187
00:08:04,390 --> 00:08:02,720
rocket to launch on wednesday

188
00:08:05,909 --> 00:08:04,400

how do you see that changing what's the

189

00:08:06,950 --> 00:08:05,919

difference between what you did and what

190

00:08:08,869 --> 00:08:06,960

they're doing today

191

00:08:11,270 --> 00:08:08,879

well i think the biggest thing is to be

192

00:08:14,629 --> 00:08:11,280

changing is we're getting people

193

00:08:16,629 --> 00:08:14,639

from visiting locations like luna mars

194

00:08:18,469 --> 00:08:16,639

but going to be living on you know a

195

00:08:20,710 --> 00:08:18,479

habitat on these planets and

196

00:08:22,550 --> 00:08:20,720

and i think having the commercial crew

197

00:08:24,629 --> 00:08:22,560

having these other entities

198

00:08:26,230 --> 00:08:24,639

being part of this bigger space picture

199

00:08:26,869 --> 00:08:26,240

you know all these resources coming

200

00:08:28,390 --> 00:08:26,879

together

201
00:08:30,469 --> 00:08:28,400
to allow something like that to happen

202
00:08:33,029 --> 00:08:30,479
and i think that's the the bigger thing

203
00:08:34,630 --> 00:08:33,039
you know long long term uh living on

204
00:08:35,990 --> 00:08:34,640
destinations that are far away

205
00:08:37,750 --> 00:08:36,000
is something that you know we've always

206
00:08:38,310 --> 00:08:37,760
visited and come home and now we're

207
00:08:40,550 --> 00:08:38,320
thinking about

208
00:08:42,949 --> 00:08:40,560
living for a duration now that seems

209
00:08:44,710 --> 00:08:42,959
scary and exciting at the same time

210
00:08:46,949 --> 00:08:44,720
i can only imagine charlie you have

211
00:08:49,269 --> 00:08:46,959
anything to add to that

212
00:08:51,750 --> 00:08:49,279
i i the only thing i would add was when

213
00:08:55,430 --> 00:08:51,760

you say what's going to be different

214

00:08:56,550 --> 00:08:55,440

if all goes well maybe as early as 2021

215

00:08:59,030 --> 00:08:56,560

you'll find that

216

00:09:01,269 --> 00:08:59,040

we'll have a launch of human space with

217

00:09:02,710 --> 00:09:01,279

no nasa crew member

218

00:09:04,870 --> 00:09:02,720

you know we've got a couple of companies

219

00:09:08,389 --> 00:09:04,880

like netbacks and uh

220

00:09:09,750 --> 00:09:08,399

and blue orange and axiom a company for

221

00:09:12,310 --> 00:09:09,760

whom i consult

222

00:09:13,829 --> 00:09:12,320

and they could be flying a crew as early

223

00:09:16,630 --> 00:09:13,839

as 20 20 points

224

00:09:17,110 --> 00:09:16,640

right that's right around the corner and

225

00:09:18,630 --> 00:09:17,120

that's

226

00:09:20,870 --> 00:09:18,640

really really really different from

227

00:09:23,110 --> 00:09:20,880

anything where

228

00:09:26,150 --> 00:09:23,120

not only are we not on a net vehicle but

229

00:09:29,030 --> 00:09:26,160

the crew is not massive

230

00:09:29,509 --> 00:09:29,040

wow um this is so so fascinating now

231

00:09:31,990 --> 00:09:29,519

josh

232

00:09:33,750 --> 00:09:32,000

you know um you're you're you're young

233

00:09:35,509 --> 00:09:33,760

right you still have time to retire from

234

00:09:35,990 --> 00:09:35,519

the nfl and then come back and work at

235

00:09:37,829 --> 00:09:36,000

nasa

236

00:09:39,030 --> 00:09:37,839

and you know become an astronaut and do

237

00:09:42,310 --> 00:09:39,040

some great things

238

00:09:44,870 --> 00:09:42,320

um yourself but josh can you tell us a

239

00:09:46,389 --> 00:09:44,880

little bit about your your internship at

240

00:09:47,750 --> 00:09:46,399

the kennedy space center what was that

241

00:09:49,670 --> 00:09:47,760

like for you what did you learn what

242

00:09:51,269 --> 00:09:49,680

excites you what motivates you

243

00:09:53,190 --> 00:09:51,279

to stay in touch with what's going on

244

00:09:54,870 --> 00:09:53,200

with space

245

00:09:56,470 --> 00:09:54,880

right um so when i got down there i

246

00:09:57,910 --> 00:09:56,480

originally started in the

247

00:10:00,310 --> 00:09:57,920

instrumentation department

248

00:10:01,110 --> 00:10:00,320

um i was on the mobile launcher working

249

00:10:03,430 --> 00:10:01,120

with like the has

250

00:10:04,630 --> 00:10:03,440

gas guys the weather detection guys just

251
00:10:05,990 --> 00:10:04,640
learning what they do see what they do

252
00:10:09,110 --> 00:10:06,000
on a daily basis

253
00:10:11,590 --> 00:10:09,120
um and like there is kind of people

254
00:10:12,150 --> 00:10:11,600
realizing like oh quarterback who's also

255
00:10:15,350 --> 00:10:12,160
in years

256
00:10:17,430 --> 00:10:15,360
in town so it kind of grew to

257
00:10:19,509 --> 00:10:17,440
every single day different where i'll

258
00:10:20,069 --> 00:10:19,519
show up and see a different stop from

259
00:10:22,389 --> 00:10:20,079
part of

260
00:10:23,829 --> 00:10:22,399
the space center and what was exciting

261
00:10:25,910 --> 00:10:23,839
for me was

262
00:10:27,190 --> 00:10:25,920
seeing how much innovation is going on

263
00:10:29,110 --> 00:10:27,200

at kennedy space center

264

00:10:31,190 --> 00:10:29,120

where a lot of people a lot of great

265

00:10:33,110 --> 00:10:31,200

minds are collaborating coming together

266

00:10:35,910 --> 00:10:33,120

to figure out ways to solve problems

267

00:10:37,190 --> 00:10:35,920

to as we said for a new age in the in

268

00:10:39,030 --> 00:10:37,200

the in the space

269

00:10:41,430 --> 00:10:39,040

expedition world so it was really fun to

270

00:10:43,350 --> 00:10:41,440

be around them pick their brains

271

00:10:44,949 --> 00:10:43,360

you know just like little things like

272

00:10:47,590 --> 00:10:44,959

being around the group that's working on

273

00:10:49,670 --> 00:10:47,600

converting trash to gas you know just

274

00:10:51,829 --> 00:10:49,680

finding different innovative ways to

275

00:10:52,949 --> 00:10:51,839

solve you know engineering problems that

276

00:10:54,870 --> 00:10:52,959

really apply

277

00:10:56,790 --> 00:10:54,880

um to the space world so it was really

278

00:10:58,790 --> 00:10:56,800

fun to be around that

279

00:11:00,710 --> 00:10:58,800

learn see what actually goes on at

280

00:11:03,350 --> 00:11:00,720

kennedy space center you know

281

00:11:04,870 --> 00:11:03,360

you hear so much about it you only can

282

00:11:05,430 --> 00:11:04,880

read so much when you actually get down

283

00:11:07,829 --> 00:11:05,440

there

284

00:11:09,590 --> 00:11:07,839

you're able to get around the engineers

285

00:11:11,990 --> 00:11:09,600

and the various apartments

286

00:11:13,990 --> 00:11:12,000

it's really good to be around them and

287

00:11:16,470 --> 00:11:14,000

spend some time with them ah

288

00:11:18,069 --> 00:11:16,480

fantastic now josh i'm gonna test your

289

00:11:18,949 --> 00:11:18,079

knowledge a little bit see how smart you

290

00:11:21,269 --> 00:11:18,959

really are

291

00:11:23,110 --> 00:11:21,279

about how long it will take for you to

292

00:11:24,710 --> 00:11:23,120

throw a football from space back to

293

00:11:35,190 --> 00:11:24,720

earth and would charlie be able to catch

294

00:11:38,790 --> 00:11:36,949

did you say charlie is the most athletic

295

00:11:41,350 --> 00:11:38,800

of the group

296

00:11:42,470 --> 00:11:41,360

no no no i heard his resume i heard his

297

00:11:44,630 --> 00:11:42,480

resume

298

00:11:47,269 --> 00:11:44,640

speaks very well for his athletic

299

00:11:50,710 --> 00:11:50,150

that is that is so fantastic okay all

300

00:11:52,949 --> 00:11:50,720

right so

301

00:11:54,550 --> 00:11:52,959

um charlie this this question is

302

00:11:56,470 --> 00:11:54,560

directed at you you know um when you

303

00:11:57,910 --> 00:11:56,480

went up to space and looked back at

304

00:11:59,750 --> 00:11:57,920

you know the mother earth what was the

305

00:12:02,710 --> 00:11:59,760

first thing that came to your mind

306

00:12:03,509 --> 00:12:02,720

as a former astronaut well i'm uh i

307

00:12:04,949 --> 00:12:03,519

think everybody

308

00:12:07,110 --> 00:12:04,959

everybody down there at the cape knows

309

00:12:09,509 --> 00:12:07,120

that i'm a i'm a very emotional guy

310

00:12:11,190 --> 00:12:09,519

and um my very first flight being an

311

00:12:13,030 --> 00:12:11,200

african-american mainly

312

00:12:15,030 --> 00:12:13,040

um i had spent a lot of time studying

313

00:12:15,990 --> 00:12:15,040

the geography of africa because i wanted

314

00:12:17,990 --> 00:12:16,000

to be able to

315

00:12:19,990 --> 00:12:18,000

to look at some of the countries on the

316

00:12:21,030 --> 00:12:20,000

west coast of africa that when likely

317

00:12:24,310 --> 00:12:21,040

places from

318

00:12:24,710 --> 00:12:24,320

ancestors came and um leland will tell

319

00:12:29,350 --> 00:12:24,720

you

320

00:12:32,389 --> 00:12:29,360

this big island coming up

321

00:12:34,069 --> 00:12:32,399

uh you know and and you finally realize

322

00:12:36,949 --> 00:12:34,079

that

323

00:12:39,190 --> 00:12:36,959

continent of africa and uh i literally

324

00:12:41,670 --> 00:12:39,200

wept i i actually had tears coming

325

00:12:43,750 --> 00:12:41,680

to my eyes because i looked down and i

326

00:12:44,550 --> 00:12:43,760

realized that all this geology i had

327

00:12:45,990 --> 00:12:44,560

studied

328

00:12:48,310 --> 00:12:46,000

was for naught because there are no

329

00:12:49,990 --> 00:12:48,320

lines down there there's no quarters

330

00:12:52,150 --> 00:12:50,000

uh you know i don't know why i thought i

331

00:12:55,590 --> 00:12:52,160

would see them i couldn't tell nigeria

332

00:12:56,150 --> 00:12:55,600

from ghana from uh algeria or whatever

333

00:12:58,150 --> 00:12:56,160

it was

334

00:12:59,430 --> 00:12:58,160

and just the beauty of the continent the

335

00:13:01,350 --> 00:12:59,440

beauty of our plan

336

00:13:02,790 --> 00:13:01,360

i was overwhelmed and i tell people all

337

00:13:05,590 --> 00:13:02,800

the time i think

338

00:13:07,350 --> 00:13:05,600

um technically you are more ready to go

339

00:13:08,790 --> 00:13:07,360

apply the training team and everybody

340

00:13:11,829 --> 00:13:08,800

else really gets you ready

341

00:13:13,350 --> 00:13:11,839

emotional i was not ready at all i

342

00:13:16,790 --> 00:13:13,360

wasn't prepared

343

00:13:18,629 --> 00:13:16,800

for beauty of our planet and you know it

344

00:13:21,990 --> 00:13:18,639

it was like that every time i

345

00:13:24,230 --> 00:13:22,000

wasn't what about

346

00:13:25,350 --> 00:13:24,240

you your experience as an astronaut how

347

00:13:28,470 --> 00:13:25,360

did you feel

348

00:13:29,590 --> 00:13:28,480

the first time you know you you just got

349

00:13:32,069 --> 00:13:29,600

into space

350

00:13:33,430 --> 00:13:32,079

and and it's you're floating right in

351
00:13:35,670 --> 00:13:33,440
that bird

352
00:13:36,949 --> 00:13:35,680
and you can look back and you see mother

353
00:13:40,069 --> 00:13:36,959
earth

354
00:13:42,870 --> 00:13:40,079
yeah i i undid my my five point

355
00:13:44,949 --> 00:13:42,880
seat belt and pushed off my back and i

356
00:13:45,750 --> 00:13:44,959
float my first job was to take a video

357
00:13:47,910 --> 00:13:45,760
camera

358
00:13:48,790 --> 00:13:47,920
and film the external tank it's not on

359
00:13:50,550 --> 00:13:48,800
the vehicle there

360
00:13:52,550 --> 00:13:50,560
external tank falling back down to the

361
00:13:54,310 --> 00:13:52,560
planet and i was focused on

362
00:13:56,470 --> 00:13:54,320
looking through that camera looking at

363
00:13:58,710 --> 00:13:56,480

the tank watching it tumble

364

00:14:00,470 --> 00:13:58,720

and then when the tank fell away i saw

365

00:14:02,870 --> 00:14:00,480

the caribbean ocean

366

00:14:05,269 --> 00:14:02,880

and i i needed new definitions of blue

367

00:14:08,470 --> 00:14:05,279

to describe the colors that i saw i mean

368

00:14:10,470 --> 00:14:08,480

i had azure indigo navy blue

369

00:14:12,389 --> 00:14:10,480

light blue turquoise whatever but i

370

00:14:13,430 --> 00:14:12,399

needed like 30 more definitions because

371

00:14:15,430 --> 00:14:13,440

the colors were so

372

00:14:17,750 --> 00:14:15,440

vibrant and so beautiful and like

373

00:14:21,030 --> 00:14:17,760

charlie said africa

374

00:14:23,030 --> 00:14:21,040

it was such an incredible thing to see

375

00:14:24,470 --> 00:14:23,040

and we took it took us five minutes to

376

00:14:26,790 --> 00:14:24,480

get down the western

377

00:14:28,310 --> 00:14:26,800

african coast and as i looked across

378

00:14:30,710 --> 00:14:28,320

africa i saw

379

00:14:32,389 --> 00:14:30,720

these thunderstorms these lightning

380

00:14:33,430 --> 00:14:32,399

lightning was sheet lightning was

381

00:14:35,750 --> 00:14:33,440

connecting

382

00:14:36,790 --> 00:14:35,760

all across the continent and you saw

383

00:14:39,269 --> 00:14:36,800

lights where there were

384

00:14:40,949 --> 00:14:39,279

villages and tribes and different things

385

00:14:42,230 --> 00:14:40,959

you could see the lights on the ground

386

00:14:44,870 --> 00:14:42,240

and then when you got to the cape of

387

00:14:47,350 --> 00:14:44,880

good hope all the light went away

388

00:14:49,350 --> 00:14:47,360

and it was over the ocean and that i

389

00:14:52,470 --> 00:14:49,360

mean charlie i almost cried

390

00:14:54,470 --> 00:14:52,480

but it was so emotional to see

391

00:14:55,670 --> 00:14:54,480

the planet in that way and just the

392

00:14:57,910 --> 00:14:55,680

colors and

393

00:15:00,230 --> 00:14:57,920

and so charlie said you know we weren't

394

00:15:02,550 --> 00:15:00,240

emotionally ready for what we would see

395

00:15:04,150 --> 00:15:02,560

that was exactly what i felt too you

396

00:15:05,430 --> 00:15:04,160

know the training was all there but the

397

00:15:07,269 --> 00:15:05,440

emotions of

398

00:15:09,030 --> 00:15:07,279

seeing mother earth and and getting this

399

00:15:09,750 --> 00:15:09,040

thing called the orbital perspective

400

00:15:13,110 --> 00:15:09,760

this

401
00:15:14,310 --> 00:15:13,120
you see the planet going around at every

402
00:15:17,509 --> 00:15:14,320
90 minutes

403
00:15:18,150 --> 00:15:17,519
and the civilizations the people that

404
00:15:21,670 --> 00:15:18,160
you're

405
00:15:22,710 --> 00:15:21,680
those no borders right charlie you don't

406
00:15:24,069 --> 00:15:22,720
see those lines

407
00:15:27,030 --> 00:15:24,079
but you know there are places where

408
00:15:29,509 --> 00:15:27,040
there's war you know below you

409
00:15:31,269 --> 00:15:29,519
and from space there's no war it's just

410
00:15:33,990 --> 00:15:31,279
a beautiful planet

411
00:15:34,870 --> 00:15:34,000
and uh just emotional right charlie just

412
00:15:41,110 --> 00:15:34,880
blew us away

413
00:15:42,629 --> 00:15:41,120

description of such a feat i mean i'm

414

00:15:44,230 --> 00:15:42,639

getting emotional just you gotta go we

415

00:15:47,509 --> 00:15:44,240

all gotta go

416

00:15:51,030 --> 00:15:49,990

charlie's number charlie's gonna lie

417

00:15:52,949 --> 00:15:51,040

listen

418

00:15:55,829 --> 00:15:52,959

live leland is gonna buy me a ticket to

419

00:15:58,470 --> 00:15:55,839

space just make sure i come back

420

00:15:59,269 --> 00:15:58,480

and i i can't wait for that trip now um

421

00:16:02,310 --> 00:15:59,279

you know so

422

00:16:03,910 --> 00:16:02,320

uh you know josh josh will buy it josh

423

00:16:05,590 --> 00:16:03,920

that's true josh you can probably afford

424

00:16:07,269 --> 00:16:05,600

it that's that's nothing for you let me

425

00:16:08,710 --> 00:16:07,279

drop in the bucket man

426
00:16:11,670 --> 00:16:08,720
yeah let me keep working in a couple

427
00:16:15,189 --> 00:16:14,230
we'll be waiting for it now you know

428
00:16:17,110 --> 00:16:15,199
you're saying some

429
00:16:19,189 --> 00:16:17,120
you know some very amazing things in

430
00:16:20,389 --> 00:16:19,199
terms of how you feel charlie um you are

431
00:16:21,590 --> 00:16:20,399
as well

432
00:16:23,749 --> 00:16:21,600
and it's great to see that you know

433
00:16:25,350 --> 00:16:23,759
there's young folks like josh who are

434
00:16:27,189 --> 00:16:25,360
interested in the space program now

435
00:16:30,150 --> 00:16:27,199
you're very very keen on

436
00:16:32,230 --> 00:16:30,160
outreach and education and and inspiring

437
00:16:34,150 --> 00:16:32,240
the youth to do

438
00:16:35,269 --> 00:16:34,160

what what you guys have already done and

439

00:16:37,430 --> 00:16:35,279

do it even better

440

00:16:38,870 --> 00:16:37,440

now so what would you say to our young

441

00:16:41,030 --> 00:16:38,880

people that are listening to you right

442

00:16:42,870 --> 00:16:41,040

now who who've seen like what you've

443

00:16:43,829 --> 00:16:42,880

done you people like you and charlie on

444

00:16:44,629 --> 00:16:43,839

the the things that you have

445

00:16:46,550 --> 00:16:44,639

accomplished

446

00:16:47,749 --> 00:16:46,560

um in your life in regards to the space

447

00:16:49,110 --> 00:16:47,759

industry what would you what would you

448

00:16:50,949 --> 00:16:49,120

tell them right now okay i'm gonna look

449

00:16:52,949 --> 00:16:50,959

straight in the camera right here

450

00:16:54,150 --> 00:16:52,959

no matter what zip code you're from

451
00:16:56,629 --> 00:16:54,160
there's talent

452
00:16:58,150 --> 00:16:56,639
and when people tell you that people may

453
00:16:59,590 --> 00:16:58,160
tell you that you can't do this you

454
00:17:02,150 --> 00:16:59,600
can't do that because of

455
00:17:02,629 --> 00:17:02,160
whatever whatever for whatever reason

456
00:17:04,710 --> 00:17:02,639
but

457
00:17:05,990 --> 00:17:04,720
if you believe in yourself and you have

458
00:17:08,150 --> 00:17:06,000
a dream you have a goal

459
00:17:09,590 --> 00:17:08,160
turn that dream into a reality my friend

460
00:17:11,510 --> 00:17:09,600
peggy whitson who was the

461
00:17:15,110 --> 00:17:11,520
commander of the international space

462
00:17:17,669 --> 00:17:15,120
station she was an iowa pig farmer

463
00:17:19,429 --> 00:17:17,679

and you know saw she thought about

464

00:17:20,789 --> 00:17:19,439

becoming an astronaut but she

465

00:17:22,949 --> 00:17:20,799

didn't really you know know if she

466

00:17:25,270 --> 00:17:22,959

thought about it but then when

467

00:17:26,150 --> 00:17:25,280

sally ride became the first female

468

00:17:29,430 --> 00:17:26,160

astronaut

469

00:17:31,430 --> 00:17:29,440

her dream changed to her goal and she

470

00:17:33,750 --> 00:17:31,440

was denied 13 times

471

00:17:34,630 --> 00:17:33,760

to become an astronaut but she stayed

472

00:17:37,190 --> 00:17:34,640

persistent

473

00:17:38,630 --> 00:17:37,200

she persevered she kept going she didn't

474

00:17:39,029 --> 00:17:38,640

give up it's like the little engine that

475

00:17:41,990 --> 00:17:39,039

could

476

00:17:42,870 --> 00:17:42,000

i think i can i think i can and when you

477

00:17:45,190 --> 00:17:42,880

think you can

478

00:17:48,390 --> 00:17:45,200

you will and so she she became the

479

00:17:51,029 --> 00:17:48,400

command she was my commander on sts 122

480

00:17:52,150 --> 00:17:51,039

because she didn't give up so work hard

481

00:17:54,950 --> 00:17:52,160

believe in yourself

482

00:17:55,909 --> 00:17:54,960

and just never give up never ever ever

483

00:17:57,830 --> 00:17:55,919

give up

484

00:17:59,110 --> 00:17:57,840

now josh you know once again and i'm

485

00:17:59,990 --> 00:17:59,120

picking on you a little bit because

486

00:18:03,270 --> 00:18:00,000

you're you're a young

487

00:18:05,350 --> 00:18:03,280

man if you were to envision the space

488

00:18:07,350 --> 00:18:05,360

industry how it would be five to ten

489

00:18:09,909 --> 00:18:07,360

years from now how do you see it from

490

00:18:11,990 --> 00:18:09,919

your perspective

491

00:18:13,350 --> 00:18:12,000

um you know from my perspective i think

492

00:18:16,549 --> 00:18:13,360

it's

493

00:18:17,830 --> 00:18:16,559

all the commercial companies start

494

00:18:20,789 --> 00:18:17,840

getting into

495

00:18:22,710 --> 00:18:20,799

um the space race so in five to ten

496

00:18:25,669 --> 00:18:22,720

years you know i see

497

00:18:27,029 --> 00:18:25,679

several several launches um from the

498

00:18:29,270 --> 00:18:27,039

united states going

499

00:18:31,029 --> 00:18:29,280

whether it's a to the space station b to

500

00:18:31,909 --> 00:18:31,039

the moon and then eventually to march

501
00:18:33,990 --> 00:18:31,919
you know i think

502
00:18:35,750 --> 00:18:34,000
that's very attainable and we're very

503
00:18:37,350 --> 00:18:35,760
close um

504
00:18:39,430 --> 00:18:37,360
obviously there's some huge steps and

505
00:18:41,669 --> 00:18:39,440
huge milestones to get to that point

506
00:18:43,350 --> 00:18:41,679
but i think in five to ten years we'll

507
00:18:45,350 --> 00:18:43,360
we will see people going

508
00:18:46,549 --> 00:18:45,360
one on the moon and then going back to

509
00:18:48,950 --> 00:18:46,559
mars or pushing

510
00:18:51,270 --> 00:18:48,960
towards that so it's an exciting time to

511
00:18:55,029 --> 00:18:51,280
get into the aerospace world

512
00:18:56,470 --> 00:18:55,039
for me to be able to one be around nasa

513
00:18:58,230 --> 00:18:56,480

especially just coming out of school and

514

00:18:59,990 --> 00:18:58,240

to be around all the youth

515

00:19:01,590 --> 00:19:00,000

in the engineering world it's really

516

00:19:04,310 --> 00:19:01,600

great to see the minds

517

00:19:05,350 --> 00:19:04,320

and to see the ideas and to see how

518

00:19:08,070 --> 00:19:05,360

bright

519

00:19:09,990 --> 00:19:08,080

the goals are that we're reaching for so

520

00:19:11,510 --> 00:19:10,000

i'm excited to see where they take us in

521

00:19:14,230 --> 00:19:11,520

the next five to ten years

522

00:19:15,350 --> 00:19:14,240

what's exciting is listening to someone

523

00:19:17,110 --> 00:19:15,360

with your youth

524

00:19:19,190 --> 00:19:17,120

your intelligence saying things like

525

00:19:20,630 --> 00:19:19,200

that because then it means that there is

526

00:19:22,310 --> 00:19:20,640

hope for the future especially in

527

00:19:24,310 --> 00:19:22,320

regards to the space industry so

528

00:19:25,750 --> 00:19:24,320

um very well answered i appreciate um

529

00:19:28,310 --> 00:19:25,760

what you're saying there josh

530

00:19:29,029 --> 00:19:28,320

now with charlie and leland you know

531

00:19:31,110 --> 00:19:29,039

with uh

532

00:19:32,870 --> 00:19:31,120

have you ever considered writing a story

533

00:19:35,590 --> 00:19:32,880

based on your experiences

534

00:19:36,549 --> 00:19:35,600

you know in space working at nasa doing

535

00:19:37,830 --> 00:19:36,559

what you do

536

00:19:39,669 --> 00:19:37,840

have you ever thought about it and would

537

00:19:42,630 --> 00:19:39,679

you even play that role in in the movie

538

00:19:47,029 --> 00:19:45,029

already he's already an accomplished

539

00:19:49,110 --> 00:19:47,039

author i am the eternal

540

00:19:50,630 --> 00:19:49,120

procrastinator so what you've been

541

00:19:52,310 --> 00:19:50,640

thinking about you're close

542

00:19:56,789 --> 00:19:52,320

for 50 years now

543

00:20:00,470 --> 00:19:56,799

[Laughter]

544

00:20:06,549 --> 00:20:00,480

there's still time but i'll get there

545

00:20:07,990 --> 00:20:06,559

i want to play charlie in his movie

546

00:20:09,750 --> 00:20:08,000

the better looking version of him is

547

00:20:11,270 --> 00:20:09,760

that what it would no no no no just

548

00:20:13,029 --> 00:20:11,280

just i want to be charlie boulder i

549

00:20:15,830 --> 00:20:13,039

understand it i understand but

550

00:20:17,190 --> 00:20:15,840

but um have you ever thought about maybe

551

00:20:19,430 --> 00:20:17,200

um documenting your

552

00:20:20,789 --> 00:20:19,440

your your memoirs um you know just

553

00:20:22,470 --> 00:20:20,799

telling your story

554

00:20:24,870 --> 00:20:22,480

you know everything that you've been

555

00:20:25,909 --> 00:20:24,880

through the the obstacles that you

556

00:20:27,909 --> 00:20:25,919

overcame

557

00:20:29,750 --> 00:20:27,919

um the challenges that you faced the

558

00:20:31,669 --> 00:20:29,760

accomplishments that you were

559

00:20:33,350 --> 00:20:31,679

that you were able to um to get to have

560

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

you ever thought about just writing that

561

00:20:36,789 --> 00:20:35,280

um whether it be as inspirational or

562

00:20:39,590 --> 00:20:36,799

just for your own

563

00:20:41,110 --> 00:20:39,600

personal documentary well i i wrote a

564

00:20:43,430 --> 00:20:41,120

book called chasing space

565

00:20:45,029 --> 00:20:43,440

and it's called an astronauts journey

566

00:20:47,029 --> 00:20:45,039

astronaut story of grit

567

00:20:48,390 --> 00:20:47,039

grace and second chances and because i

568

00:20:50,070 --> 00:20:48,400

had a lot of

569

00:20:51,590 --> 00:20:50,080

obstacles along the way that i had to

570

00:20:53,590 --> 00:20:51,600

overcome just to

571

00:20:55,830 --> 00:20:53,600

really just to get out of high school

572

00:20:57,990 --> 00:20:55,840

and so i put all those stories in there

573

00:20:59,270 --> 00:20:58,000

as a way for kids to see that you know

574

00:21:00,870 --> 00:20:59,280

no matter where you start

575

00:21:03,590 --> 00:21:00,880

you can always get through that and i

576

00:21:05,350 --> 00:21:03,600

wrote a children's version of that too

577

00:21:07,430 --> 00:21:05,360

so there's a and the children's version

578

00:21:08,630 --> 00:21:07,440

has a lot of nasa education activities

579

00:21:11,110 --> 00:21:08,640

in the back so they can

580

00:21:12,789 --> 00:21:11,120

do some activities with the kids wow so

581

00:21:13,510 --> 00:21:12,799

you heard it right here folks there's a

582

00:21:17,110 --> 00:21:13,520

plug

583

00:21:19,190 --> 00:21:17,120

chasing space go out get the book okay

584

00:21:20,630 --> 00:21:19,200

read it because you never know you might

585

00:21:22,310 --> 00:21:20,640

be the next leland melvin

586

00:21:24,310 --> 00:21:22,320

you might be the next astronaut you

587

00:21:26,549 --> 00:21:24,320

might be the next you know

588

00:21:27,750 --> 00:21:26,559

superstar doing some amazing things on

589

00:21:30,230 --> 00:21:27,760

our planet earth here

590

00:21:32,549 --> 00:21:30,240

so i think we have time for maybe just a

591

00:21:34,789 --> 00:21:32,559

couple a couple more questions

592

00:21:35,990 --> 00:21:34,799

um and um leland and charlie i'm going

593

00:21:37,830 --> 00:21:36,000

to direct this one

594

00:21:39,430 --> 00:21:37,840

towards you do you have any advice for

595

00:21:42,870 --> 00:21:39,440

fresh graduates or

596

00:21:46,149 --> 00:21:42,880

final year students charlie go ahead

597

00:21:46,789 --> 00:21:46,159

yeah i would uh i just followed josh's

598

00:21:50,549 --> 00:21:46,799

example

599

00:21:53,510 --> 00:21:50,559

you know josh dobbs is uh he is a

600

00:21:54,950 --> 00:21:53,520

a perfect example of someone who defied

601
00:21:57,110 --> 00:21:54,960
the stereotype

602
00:21:58,630 --> 00:21:57,120
you know most people particularly coming

603
00:22:01,029 --> 00:21:58,640
from our community

604
00:22:02,149 --> 00:22:01,039
uh and our zip codes believe it's one or

605
00:22:05,669 --> 00:22:02,159
the other either you're an

606
00:22:08,070 --> 00:22:05,679
acne or you're something else and uh

607
00:22:08,789 --> 00:22:08,080
josh and leland are perfect examples

608
00:22:10,950 --> 00:22:08,799
that

609
00:22:12,789 --> 00:22:10,960
you can do anything you want to do if

610
00:22:13,750 --> 00:22:12,799
you're willing to work really hard and

611
00:22:17,750 --> 00:22:13,760
study

612
00:22:18,630 --> 00:22:17,760
and uh i am incredibly impressed by both

613
00:22:21,830 --> 00:22:18,640

of them

614

00:22:23,350 --> 00:22:21,840

particularly josh today most people

615

00:22:26,390 --> 00:22:23,360

think that somebody who's going to be

616

00:22:28,789 --> 00:22:26,400

a fair particular football player

617

00:22:30,230 --> 00:22:28,799

doesn't have time for any and i was

618

00:22:30,950 --> 00:22:30,240

blown away to find out that he had

619

00:22:33,510 --> 00:22:30,960

actually

620

00:22:35,190 --> 00:22:33,520

with the nfl's blessing uh you know

621

00:22:37,510 --> 00:22:35,200

found a way to get down to ksc

622

00:22:38,630 --> 00:22:37,520

and and spend some time and just his

623

00:22:41,430 --> 00:22:38,640

being there i think

624

00:22:41,909 --> 00:22:41,440

is an example for a lot of a lot of us

625

00:22:44,310 --> 00:22:41,919

who see

626

00:22:45,430 --> 00:22:44,320

him but particularly for kids who will

627

00:22:50,870 --> 00:22:45,440

say okay i can

628

00:22:55,590 --> 00:22:53,830

wow yeah that is um very very very

629

00:22:58,950 --> 00:22:55,600

touching and josh you are

630

00:23:01,750 --> 00:22:58,960

um very very impressive all right

631

00:23:03,110 --> 00:23:01,760

so um one one more um one more question

632

00:23:04,870 --> 00:23:03,120

and leland this one's going to go back

633

00:23:07,510 --> 00:23:04,880

to you again how can we encourage

634

00:23:09,430 --> 00:23:07,520

those that are not in the stem field but

635

00:23:11,830 --> 00:23:09,440

interested in space

636

00:23:12,470 --> 00:23:11,840

to pursue a career in the space industry

637

00:23:15,830 --> 00:23:12,480

okay go

638

00:23:18,070 --> 00:23:15,840

check out nasa.gov stem

639

00:23:19,750 --> 00:23:18,080

there are activities that are happening

640

00:23:20,630 --> 00:23:19,760

right now around the constellation

641

00:23:22,470 --> 00:23:20,640

commercial equipment

642

00:23:24,149 --> 00:23:22,480

the commercial crew launch and there are

643

00:23:27,669 --> 00:23:24,159

things that you can do there

644

00:23:30,230 --> 00:23:27,679

um always what about those not

645

00:23:31,669 --> 00:23:30,240

non-stem not instant that but are

646

00:23:34,070 --> 00:23:31,679

interested in space

647

00:23:35,669 --> 00:23:34,080

so go to that website okay that's that's

648

00:23:37,110 --> 00:23:35,679

the first one go to the website and see

649

00:23:39,590 --> 00:23:37,120

what's out there

650

00:23:41,590 --> 00:23:39,600

google you know astronaut charlie bolden

651
00:23:43,350 --> 00:23:41,600
google astronaut leland melvin go find

652
00:23:46,630 --> 00:23:43,360
out what people are doing

653
00:23:47,669 --> 00:23:46,640
with stem education and how in their

654
00:23:49,750 --> 00:23:47,679
path the journey

655
00:23:51,430 --> 00:23:49,760
how did i get there how did charlie get

656
00:23:53,430 --> 00:23:51,440
there what were the what were the things

657
00:23:55,110 --> 00:23:53,440
that we had to go through to get there

658
00:23:56,549 --> 00:23:55,120
because i think sometimes people don't

659
00:23:57,909 --> 00:23:56,559
see they see the

660
00:23:59,750 --> 00:23:57,919
the person up there but they don't see

661
00:24:01,669 --> 00:23:59,760
the journey the path to get there

662
00:24:03,350 --> 00:24:01,679
and everyone's path is different you

663
00:24:04,549 --> 00:24:03,360

know my path is different than charlie's

664

00:24:05,909 --> 00:24:04,559

he went to the military

665

00:24:08,230 --> 00:24:05,919

i was a civilian i didn't go through the

666

00:24:09,830 --> 00:24:08,240

military so find out all the

667

00:24:12,149 --> 00:24:09,840

endpoints of the people that are up

668

00:24:13,909 --> 00:24:12,159

there see what classes they took

669

00:24:15,909 --> 00:24:13,919

see what you know what major they

670

00:24:17,350 --> 00:24:15,919

majored in and you don't have to do it

671

00:24:19,269 --> 00:24:17,360

exactly like we did it

672

00:24:20,390 --> 00:24:19,279

but just know that that's the starting

673

00:24:22,470 --> 00:24:20,400

point and

674

00:24:23,510 --> 00:24:22,480

you know mr google is a great way to see

675

00:24:25,190 --> 00:24:23,520

you know the things

676
00:24:27,029 --> 00:24:25,200
mr google i mean it's a great way to see

677
00:24:27,590 --> 00:24:27,039
it's a it's a thing the internet is a

678
00:24:29,350 --> 00:24:27,600
way

679
00:24:31,029 --> 00:24:29,360
it kind of levels the playing field

680
00:24:32,789 --> 00:24:31,039
because the information out there there

681
00:24:35,830 --> 00:24:32,799
are universities like mit

682
00:24:37,190 --> 00:24:35,840
giving free classes to people so

683
00:24:38,549 --> 00:24:37,200
you know it doesn't matter what zip code

684
00:24:39,909 --> 00:24:38,559
you're in you've got to get online to

685
00:24:40,870 --> 00:24:39,919
see what's out there and then go to the

686
00:24:48,390 --> 00:24:40,880
library

687
00:24:50,070 --> 00:24:48,400
but the the police officer checked the

688
00:24:51,590 --> 00:24:50,080

physics book out he had a book he wanted

689

00:24:53,269 --> 00:24:51,600

to read a book the police officer

690

00:24:54,789 --> 00:24:53,279

checked the book out for him and that

691

00:24:56,789 --> 00:24:54,799

fueled his curiosity

692

00:24:58,310 --> 00:24:56,799

so there's public libraries that are

693

00:24:59,269 --> 00:24:58,320

around that have information if you

694

00:24:59,990 --> 00:24:59,279

don't have a chance to get on the

695

00:25:02,950 --> 00:25:00,000

internet

696

00:25:04,950 --> 00:25:02,960

and be curious always look up at the

697

00:25:06,549 --> 00:25:04,960

night sky and see the stars and

698

00:25:08,630 --> 00:25:06,559

maybe watch the space station going

699

00:25:09,269 --> 00:25:08,640

overhead and find out what people are

700

00:25:11,590 --> 00:25:09,279

doing

701
00:25:12,870 --> 00:25:11,600
and what you can do to help inspire

702
00:25:14,549 --> 00:25:12,880
yourself to be

703
00:25:16,470 --> 00:25:14,559
that next charlie bouldin and i think

704
00:25:17,190 --> 00:25:16,480
you bring a very very good point there

705
00:25:20,549 --> 00:25:17,200
because

706
00:25:22,310 --> 00:25:20,559
astronauts need nurses astronauts

707
00:25:23,750 --> 00:25:22,320
i was going to say can i add one thing

708
00:25:25,909 --> 00:25:23,760
sure go ahead charlie you know

709
00:25:27,350 --> 00:25:25,919
exactly and i think you were going there

710
00:25:31,269 --> 00:25:27,360
we tend to dwell on

711
00:25:34,470 --> 00:25:31,279
the astronaut astronauts are like the

712
00:25:37,430 --> 00:25:34,480
a little prick right um we've got 18

713
00:25:38,630 --> 00:25:37,440

000 employees in nasa and about 40 000

714

00:25:40,470 --> 00:25:38,640

contractors

715

00:25:41,750 --> 00:25:40,480

and maybe 40 or 50 people in the

716

00:25:43,750 --> 00:25:41,760

astronaut office

717

00:25:46,149 --> 00:25:43,760

one of the good things about social the

718

00:25:48,789 --> 00:25:46,159

nasa social is they get an opportunity

719

00:25:50,310 --> 00:25:48,799

to see the photographers and the writers

720

00:25:52,789 --> 00:25:50,320

and the videographers

721

00:25:54,070 --> 00:25:52,799

and the engineers and that you've asked

722

00:25:54,950 --> 00:25:54,080

the question of leland what about

723

00:25:56,950 --> 00:25:54,960

somebody who's not

724

00:25:58,870 --> 00:25:56,960

interested in stem right now they can

725

00:26:01,269 --> 00:25:58,880

still be part of the space program

726

00:26:03,750 --> 00:26:01,279

uh but they need to you know read some

727

00:26:04,230 --> 00:26:03,760

of the stuff that's that's on nasa.gov

728

00:26:05,510 --> 00:26:04,240

and

729

00:26:07,750 --> 00:26:05,520

if they see a little name down there

730

00:26:12,470 --> 00:26:10,630

by the name of uh write a letter to

731

00:26:13,350 --> 00:26:12,480

stephanie sharehold who say hey i love

732

00:26:15,669 --> 00:26:13,360

what you do

733

00:26:17,190 --> 00:26:15,679

how can i be you i want to be able to

734

00:26:18,630 --> 00:26:17,200

write like you do it i won't be able to

735

00:26:20,149 --> 00:26:18,640

take pictures like you

736

00:26:21,669 --> 00:26:20,159

one of the persons that tells nasa's

737

00:26:22,310 --> 00:26:21,679

story better than anybody else is bill

738

00:26:24,070 --> 00:26:22,320

ingles

739

00:26:25,590 --> 00:26:24,080

yeah it's the world's greatest

740

00:26:27,590 --> 00:26:25,600

photographer and most

741

00:26:29,430 --> 00:26:27,600

most pictures you've seen that come from

742

00:26:31,669 --> 00:26:29,440

from launches and everything else

743

00:26:32,950 --> 00:26:31,679

that's bills and he's the storyteller i

744

00:26:34,230 --> 00:26:32,960

know in nasa so

745

00:26:35,990 --> 00:26:34,240

there are a lot of ways you can be

746

00:26:39,430 --> 00:26:36,000

involved in the space program and

747

00:26:41,590 --> 00:26:39,440

and not you know be an astronaut

748

00:26:43,510 --> 00:26:41,600

charlie just added the a to stem to make

749

00:26:45,510 --> 00:26:43,520

it steam because the arts is so

750

00:26:47,029 --> 00:26:45,520

important in what we do the people that

751

00:26:48,789 --> 00:26:47,039

set up this exhibit here

752

00:26:50,070 --> 00:26:48,799

this is art you know there's graphic

753

00:26:51,190 --> 00:26:50,080

arts there's language arts

754

00:26:53,029 --> 00:26:51,200

there's the writing that charlie

755

00:26:54,390 --> 00:26:53,039

mentioned so it's so important that we

756

00:26:56,310 --> 00:26:54,400

look at the entire

757

00:26:57,830 --> 00:26:56,320

package of what we do at nasa not just

758

00:26:58,789 --> 00:26:57,840

like you said the astronauts or the

759

00:27:00,149 --> 00:26:58,799

engineers but

760

00:27:02,149 --> 00:27:00,159

there's so many other people that make

761

00:27:03,990 --> 00:27:02,159

this place work like this team right

762

00:27:06,470 --> 00:27:04,000

here that's putting this social together

763

00:27:07,269 --> 00:27:06,480

right absolutely absolutely thank you so

764

00:27:09,350 --> 00:27:07,279

much for that

765

00:27:11,190 --> 00:27:09,360

and so what we're going to do now is um

766

00:27:13,029 --> 00:27:11,200

i'd like to get some closing statements

767

00:27:13,750 --> 00:27:13,039

from each one of you guys um i want to

768

00:27:18,470 --> 00:27:13,760

know

769

00:27:21,190 --> 00:27:18,480

significance of

770

00:27:21,750 --> 00:27:21,200

what's happening this historic moment

771

00:27:23,590 --> 00:27:21,760

that we're

772

00:27:25,909 --> 00:27:23,600

that that is amidst us right now so josh

773

00:27:29,269 --> 00:27:25,919

i'm going to go ahead and start with you

774

00:27:31,190 --> 00:27:29,279

you're down the spot first first news

775

00:27:32,389 --> 00:27:31,200

please thank you uh for hosting this

776

00:27:34,710 --> 00:27:32,399

thank you for joining us

777

00:27:36,149 --> 00:27:34,720

you know i think for me uh one just to

778

00:27:38,149 --> 00:27:36,159

be a part of this social

779

00:27:39,190 --> 00:27:38,159

and to get a chance to talk to charlie

780

00:27:41,750 --> 00:27:39,200

and talk to leland

781

00:27:43,190 --> 00:27:41,760

um is that have accomplished a lot in

782

00:27:45,190 --> 00:27:43,200

the engineering world that i

783

00:27:46,310 --> 00:27:45,200

will accomplish um at some point you

784

00:27:47,590 --> 00:27:46,320

know these these are two

785

00:27:49,909 --> 00:27:47,600

things that i look up to and i'll be

786

00:27:50,310 --> 00:27:49,919

excited to meet you guys face to face in

787

00:27:53,350 --> 00:27:50,320

a

788

00:27:55,990 --> 00:27:53,360

exciting times

789

00:27:57,269 --> 00:27:56,000

in this video you know this launch is

790

00:27:58,950 --> 00:27:57,279

it's pretty monumental

791

00:28:00,549 --> 00:27:58,960

uh for the next steps for the

792

00:28:02,870 --> 00:28:00,559

springboard to what kind of ground it's

793

00:28:04,950 --> 00:28:02,880

five to ten years as a young engineer

794

00:28:06,630 --> 00:28:04,960

who's looking to continue um in the

795

00:28:07,750 --> 00:28:06,640

aerospace world you know it's exciting

796

00:28:09,669 --> 00:28:07,760

times to be a part

797

00:28:11,110 --> 00:28:09,679

of what naf is doing it's exciting times

798

00:28:13,350 --> 00:28:11,120

to see the launch and

799

00:28:14,950 --> 00:28:13,360

um i'll be very thankful to be a part of

800

00:28:16,630 --> 00:28:14,960

this as

801
00:28:18,310 --> 00:28:16,640
history we're making history this week

802
00:28:21,190 --> 00:28:18,320
so thank you thank you guys

803
00:28:23,029 --> 00:28:21,200
thank you so much josh we so intend to

804
00:28:25,590 --> 00:28:23,039
follow your story because it's

805
00:28:27,029 --> 00:28:25,600
already exciting the lord knows where

806
00:28:28,149 --> 00:28:27,039
you're gonna be five to ten years from

807
00:28:31,590 --> 00:28:28,159
now so

808
00:28:33,750 --> 00:28:31,600
thank you so much for that um charlie

809
00:28:35,029 --> 00:28:33,760
yeah i'll uh kind of tag on to something

810
00:28:36,230 --> 00:28:35,039
josh said

811
00:28:38,549 --> 00:28:36,240
at the beginning of the program and

812
00:28:39,190 --> 00:28:38,559
that's i i hope every people remember

813
00:28:41,750 --> 00:28:39,200

that

814

00:28:42,710 --> 00:28:41,760

not just barbecue day it's memorial day

815

00:28:45,029 --> 00:28:42,720

and

816

00:28:46,470 --> 00:28:45,039

so as we get ready for the launch on

817

00:28:48,310 --> 00:28:46,480

wednesday please

818

00:28:49,830 --> 00:28:48,320

keep in mind the people who the ultimate

819

00:28:52,070 --> 00:28:49,840

sacrifice that we

820

00:28:53,029 --> 00:28:52,080

do what we're gonna do on wednesday and

821

00:28:56,070 --> 00:28:53,039

then uh

822

00:28:56,870 --> 00:28:56,080

it's a big day like that's a huge day

823

00:28:59,350 --> 00:28:56,880

because

824

00:29:00,310 --> 00:28:59,360

it is actually opening the door the

825

00:29:02,389 --> 00:29:00,320

commercial space

826

00:29:03,830 --> 00:29:02,399

flight and the opportunity for more and

827

00:29:05,990 --> 00:29:03,840

more people to have

828

00:29:07,510 --> 00:29:06,000

to go do the kinds of things that leon

829

00:29:09,750 --> 00:29:07,520

and i have been blessed

830

00:29:11,190 --> 00:29:09,760

to do so um thanks to everybody who made

831

00:29:14,149 --> 00:29:11,200

this social possible

832

00:29:16,149 --> 00:29:14,159

thanks to all of the people tuned in and

833

00:29:21,510 --> 00:29:16,159

get a good seat

834

00:29:24,870 --> 00:29:23,190

and um charlie i'm going to turn that

835

00:29:27,430 --> 00:29:24,880

thanks right back to you i want to thank

836

00:29:29,750 --> 00:29:27,440

you again for your service um primarily

837

00:29:31,110 --> 00:29:29,760

and also for your leadership as our

838

00:29:33,750 --> 00:29:31,120

administrator

839

00:29:34,549 --> 00:29:33,760

because it takes leadership to do great

840

00:29:36,470 --> 00:29:34,559

things and

841

00:29:38,070 --> 00:29:36,480

i mean you you sat at the head of the

842

00:29:40,230 --> 00:29:38,080

table and um

843

00:29:41,510 --> 00:29:40,240

your your your passion for what we were

844

00:29:44,710 --> 00:29:41,520

doing and and your

845

00:29:46,470 --> 00:29:44,720

care for all the people that you led was

846

00:29:48,149 --> 00:29:46,480

very very apparent so thank you for

847

00:29:51,029 --> 00:29:48,159

everything that you did while you were

848

00:29:52,310 --> 00:29:51,039

um our administrator and last but not

849

00:29:55,110 --> 00:29:52,320

least leland

850

00:29:56,230 --> 00:29:55,120

thanks uh thanks josh and charlie for

851
00:29:58,470 --> 00:29:56,240
those great words

852
00:29:59,350 --> 00:29:58,480
i also want to thank hortense diggs for

853
00:30:01,269 --> 00:29:59,360
she used to

854
00:30:03,029 --> 00:30:01,279
work with me in education and now she's

855
00:30:03,990 --> 00:30:03,039
one of the big dogs at nasa kennedy

856
00:30:06,230 --> 00:30:04,000
space center

857
00:30:07,590 --> 00:30:06,240
but thank her for pulling this all

858
00:30:09,110 --> 00:30:07,600
together because she

859
00:30:10,870 --> 00:30:09,120
talked to me she sent me a text and said

860
00:30:11,990 --> 00:30:10,880
hey i want to get you charlie and josh

861
00:30:14,470 --> 00:30:12,000
together and it's

862
00:30:15,510 --> 00:30:14,480
sometimes rare that you see three

863
00:30:17,990 --> 00:30:15,520

african-american men

864

00:30:19,029 --> 00:30:18,000

and and you know two nfl players and two

865

00:30:20,549 --> 00:30:19,039

astronauts and

866

00:30:21,909 --> 00:30:20,559

you never really see that and what i

867

00:30:24,310 --> 00:30:21,919

said earlier was that you know it

868

00:30:27,029 --> 00:30:24,320

doesn't matter what zip code you're from

869

00:30:27,510 --> 00:30:27,039

we all have the same thing on this

870

00:30:29,750 --> 00:30:27,520

planet

871

00:30:31,430 --> 00:30:29,760

we all have the same amount of time how

872

00:30:33,590 --> 00:30:31,440

do you use your time

873

00:30:35,350 --> 00:30:33,600

and so use that time wisely believe in

874

00:30:38,070 --> 00:30:35,360

yourself and for the kids out there

875

00:30:40,549 --> 00:30:38,080

you can be whatever you want to be and

876

00:30:43,190 --> 00:30:40,559

i'm just so honored to be part of this

877

00:30:44,310 --> 00:30:43,200

this program coming up on wednesday

878

00:30:47,830 --> 00:30:44,320

we're sending

879

00:30:50,389 --> 00:30:47,840

human beings to space on a spacex rocket

880

00:30:52,149 --> 00:30:50,399

dragon crew dragon and it's monumental

881

00:30:54,549 --> 00:30:52,159

because this is the fifth time

882

00:30:55,350 --> 00:30:54,559

in the history of our space program that

883

00:30:57,430 --> 00:30:55,360

we've had a

884

00:30:58,549 --> 00:30:57,440

another vehicle this is the fifth

885

00:31:01,190 --> 00:30:58,559

vehicle so

886

00:31:02,950 --> 00:31:01,200

it's monumental it's uh it's gonna blow

887

00:31:04,470 --> 00:31:02,960

my mind ease i mean just to see this

888

00:31:06,630 --> 00:31:04,480

rocket taken off but

889

00:31:08,070 --> 00:31:06,640

but uh i'm really honored and blessed to

890

00:31:09,590 --> 00:31:08,080

be here and uh

891

00:31:11,269 --> 00:31:09,600

godspeed on your journey and whatever

892

00:31:12,470 --> 00:31:11,279

you decide to do with your lives and you

893

00:31:15,830 --> 00:31:12,480

can do anything you want to

894

00:31:17,669 --> 00:31:15,840

thanks i absolutely

895

00:31:19,509 --> 00:31:17,679

thank you the thanks really goes on to

896

00:31:21,350 --> 00:31:19,519

to all of you and i feel like i'm about

897

00:31:23,590 --> 00:31:21,360

20 times smarter right now just having

898

00:31:24,549 --> 00:31:23,600

this conversation so i appreciate that

899

00:31:26,710 --> 00:31:24,559

already

900

00:31:27,590 --> 00:31:26,720

um with that folks we do want to take a

901
00:31:29,750 --> 00:31:27,600

quick moment

902
00:31:33,110 --> 00:31:29,760

and um and just commemorate um have just

903
00:31:35,269 --> 00:31:33,120

a moment of silence for um memorial day

904
00:31:37,590 --> 00:31:35,279

because as we mentioned in our previous

905
00:31:39,430 --> 00:31:37,600

shows it's those who are out there

906
00:31:41,029 --> 00:31:39,440

fighting for us fighting for our freedom

907
00:31:42,630 --> 00:31:41,039

that make it possible for us to do what

908
00:31:43,830 --> 00:31:42,640

we're doing right here today

909
00:31:46,230 --> 00:31:43,840

um so we're just gonna take a quick

910
00:31:48,789 --> 00:31:46,240

moment of silence and say um and

911
00:31:52,389 --> 00:31:48,799

give thanks to everything that our

912
00:31:55,430 --> 00:31:54,710

all right and so with that folks that's

913
00:31:57,669 --> 00:31:55,440

going to be

914

00:31:59,190 --> 00:31:57,679

the the closing of this program here

915

00:32:00,149 --> 00:31:59,200

thank you for joining us thank you for

916

00:32:03,190 --> 00:32:00,159

your questions

917

00:32:04,549 --> 00:32:03,200

thank you again leland charlie and josh

918

00:32:06,310 --> 00:32:04,559

for everything that you do

919

00:32:07,669 --> 00:32:06,320

for all the words that you shared the

920

00:32:08,870 --> 00:32:07,679

words and the experiences that you that

921

00:32:10,549 --> 00:32:08,880

you shared with us

922

00:32:12,149 --> 00:32:10,559

we hope you stay tuned this is only I

923

00:32:14,070 --> 00:32:12,159

minus two we still have another day we

924

00:32:16,070 --> 00:32:14,080

have another day for you tomorrow

925

00:32:17,590 --> 00:32:16,080

with some exciting shows the schedule

926
00:32:17,990 --> 00:32:17,600
should be popped up on your screen right

927
00:32:20,789 --> 00:32:18,000
now

928
00:32:21,909 --> 00:32:20,799
so please check on in be ready with your

929
00:32:24,310 --> 00:32:21,919
questions we have

930
00:32:25,509 --> 00:32:24,320
jim bridenstine our our current nasa

931
00:32:28,710 --> 00:32:25,519
administrator and

932
00:32:30,710 --> 00:32:28,720
bob cabana the uh the ksc center

933
00:32:32,470 --> 00:32:30,720
director along with um jim

934
00:32:34,470 --> 00:32:32,480
moore mohart who's going to be here two

935
00:32:36,230 --> 00:32:34,480
o'clock as well so please tune in have

936
00:32:36,789 --> 00:32:36,240
your questions ready you can talk to our

937
00:32:38,310 --> 00:32:36,799
leaders

938
00:32:40,230 --> 00:32:38,320

and find out what's really going on in

939

00:32:42,470 --> 00:32:40,240

our community and more importantly

940

00:32:44,230 --> 00:32:42,480

how this all happens it's not magic it's

941

00:32:44,789 --> 00:32:44,240

not rocket scientist it's a lot more

942

00:32:46,950 --> 00:32:44,799

than that

943

00:32:48,789 --> 00:32:46,960

it's the people behind all of it all

944

00:32:50,230 --> 00:32:48,799

right so once again guys in closing

945

00:32:54,830 --> 00:32:50,240

thank you um so much