



1
00:00:16,390 --> 00:00:10,709
[Music]

2
00:00:20,230 --> 00:00:16,400
we are go for launch

3
00:00:24,070 --> 00:00:20,240
t-minus ten nine eight

4
00:00:27,269 --> 00:00:24,080
seven six five four

5
00:00:29,349 --> 00:00:27,279
three two one

6
00:00:35,860 --> 00:00:29,359
welcome to the nasa social for the crew

7
00:01:13,510 --> 00:00:42,830
[Music]

8
00:01:18,230 --> 00:01:15,830
good afternoon everyone and welcome back

9
00:01:20,149 --> 00:01:18,240
to the virtual nasa social for the crew

10
00:01:21,109 --> 00:01:20,159
one mission to the international space

11
00:01:24,149 --> 00:01:21,119
station

12
00:01:26,070 --> 00:01:24,159
in just over 24 hours four astronauts

13
00:01:28,710 --> 00:01:26,080

will be making their way to the launch

14

00:01:31,749 --> 00:01:28,720

pad to climb on board the crew dragon

15

00:01:34,870 --> 00:01:31,759

ahead of launch targeted for 7 49 pm

16

00:01:35,190 --> 00:01:34,880

eastern time i'm madison tuttle i am

17

00:01:37,510 --> 00:01:35,200

with

18

00:01:39,109 --> 00:01:37,520

nasa communications and i'll be one of

19

00:01:39,990 --> 00:01:39,119

your hosts for this segment of the

20

00:01:42,310 --> 00:01:40,000

virtual nasa

21

00:01:43,910 --> 00:01:42,320

social we have two very special guests

22

00:01:45,830 --> 00:01:43,920

that i'm very excited about

23

00:01:47,510 --> 00:01:45,840

and we'll meet them in just a moment but

24

00:01:49,109 --> 00:01:47,520

just a reminder that if you have

25

00:01:51,190 --> 00:01:49,119

questions while we're speaking with our

26

00:01:53,830 --> 00:01:51,200

guests please drop them in the chat

27

00:01:54,870 --> 00:01:53,840

and we might just answer them live so

28

00:01:57,350 --> 00:01:54,880

i'm going to let

29

00:01:59,030 --> 00:01:57,360

my good friend joshua santora introduce

30

00:02:00,630 --> 00:01:59,040

our two guests today

31

00:02:02,789 --> 00:02:00,640

so i'm going to throw it out to joshua

32

00:02:05,910 --> 00:02:02,799

who is at the launch complex 39

33

00:02:07,270 --> 00:02:05,920

observation gantry

34

00:02:09,669 --> 00:02:07,280

thanks so much madison you're not the

35

00:02:11,510 --> 00:02:09,679

only one that's super excited i also am

36

00:02:13,830 --> 00:02:11,520

excited because i'm joined by

37

00:02:14,630 --> 00:02:13,840

uh two incredible guests here uh

38

00:02:16,869 --> 00:02:14,640

astronauts

39

00:02:18,309 --> 00:02:16,879

sunni williams and johnny kim thank you

40

00:02:19,750 --> 00:02:18,319

both for being here today

41

00:02:21,030 --> 00:02:19,760

oh it's great to be here i mean it

42

00:02:22,710 --> 00:02:21,040

doesn't get much better when you have

43

00:02:23,830 --> 00:02:22,720

rockets all around you you know this is

44

00:02:25,030 --> 00:02:23,840

pretty cool

45

00:02:27,110 --> 00:02:25,040

yeah this is pretty awesome thanks for

46

00:02:27,589 --> 00:02:27,120

having us yeah so as sonny mentioned we

47

00:02:28,710 --> 00:02:27,599

have

48

00:02:30,150 --> 00:02:28,720

uh it's a little bit tough to see

49

00:02:31,110 --> 00:02:30,160

because it's a it's a bright beautiful

50

00:02:33,270 --> 00:02:31,120

day here in florida

51
00:02:34,710 --> 00:02:33,280
uh the crew dragon on board atop the

52
00:02:36,550 --> 00:02:34,720
falcon 9 is right behind us

53
00:02:37,750 --> 00:02:36,560
and then off to on the coast here we've

54
00:02:40,070 --> 00:02:37,760
got the atlas v

55
00:02:40,949 --> 00:02:40,080
stacked and ready as well as a delta iv

56
00:02:43,990 --> 00:02:40,959
so it is

57
00:02:44,790 --> 00:02:44,000
uh man it's it's real like this is so so

58
00:02:46,630 --> 00:02:44,800
great um

59
00:02:48,550 --> 00:02:46,640
but appreciate you both being here uh

60
00:02:51,190 --> 00:02:48,560
sunny has flown to space station

61
00:02:52,710 --> 00:02:51,200
twice now twice and johnny you're still

62
00:02:56,229 --> 00:02:52,720
waiting your rookie flight

63
00:02:58,229 --> 00:02:56,239

um you're a newly graduated astronaut

64

00:02:59,350 --> 00:02:58,239

but certainly like no less an astronaut

65

00:03:00,630 --> 00:02:59,360

um so thanks for being here i want to

66

00:03:02,630 --> 00:03:00,640

give you both a chance to kind of tell

67

00:03:04,470 --> 00:03:02,640

us just a little bit about yourselves so

68

00:03:05,670 --> 00:03:04,480

i'll leave that open-ended as to how you

69

00:03:06,390 --> 00:03:05,680

want to kind of talk about yourself and

70

00:03:08,149 --> 00:03:06,400

then we'll

71

00:03:09,270 --> 00:03:08,159

we'll jump right into questions here so

72

00:03:09,990 --> 00:03:09,280

johnny you want to start and then sunny

73

00:03:12,949 --> 00:03:10,000

we'll finish with you

74

00:03:15,190 --> 00:03:12,959

yeah sure my name is johnny kim i'm a

75

00:03:17,110 --> 00:03:15,200

lieutenant in the united states navy

76

00:03:19,270 --> 00:03:17,120

and i am with the latest class of

77

00:03:22,630 --> 00:03:19,280

astronauts called the turtles

78

00:03:24,630 --> 00:03:22,640

my journey i guess starts when i was

79

00:03:25,750 --> 00:03:24,640

much younger after high school i

80

00:03:29,270 --> 00:03:25,760

graduated

81

00:03:31,750 --> 00:03:29,280

i became a navy seal i enlisted

82

00:03:32,630 --> 00:03:31,760

and through those experiences both good

83

00:03:34,710 --> 00:03:32,640

and bad

84

00:03:36,949 --> 00:03:34,720

i learned a lot about myself i learned a

85

00:03:39,910 --> 00:03:36,959

lot about

86

00:03:41,190 --> 00:03:39,920

relationships about teamwork and about

87

00:03:45,350 --> 00:03:41,200

service

88

00:03:47,430 --> 00:03:45,360

next level and i was very inspired by

89

00:03:47,990 --> 00:03:47,440

the physicians and nurses that we got to

90

00:03:51,030 --> 00:03:48,000

work with

91

00:03:52,390 --> 00:03:51,040

overseas so i then decided that i would

92

00:03:55,509 --> 00:03:52,400

continue my service

93

00:03:57,750 --> 00:03:55,519

through the navy's medical program i

94

00:03:59,270 --> 00:03:57,760

went to school i studied math at the

95

00:04:00,789 --> 00:03:59,280

university of san diego

96

00:04:02,710 --> 00:04:00,799

i studied medicine at harvard medical

97

00:04:04,550 --> 00:04:02,720

school and i was on my way to becoming

98

00:04:07,589 --> 00:04:04,560

an emergency medicine doctor

99

00:04:10,470 --> 00:04:07,599

when i applied for the latest class of

100

00:04:12,229 --> 00:04:10,480

nasa astronauts back in 2016 and i was

101
00:04:13,509 --> 00:04:12,239
lucky and privileged enough to be called

102
00:04:16,229 --> 00:04:13,519
upon to

103
00:04:17,909 --> 00:04:16,239
have this amazing opportunity and that's

104
00:04:19,670 --> 00:04:17,919
where i am today

105
00:04:21,270 --> 00:04:19,680
so uh as you mentioned you're in the

106
00:04:22,390 --> 00:04:21,280
latest class and i wouldn't ask but

107
00:04:25,030 --> 00:04:22,400
since you brought it up

108
00:04:26,550 --> 00:04:25,040
uh you're nicknamed the turtles and i

109
00:04:27,110 --> 00:04:26,560
know that for each class they have a

110
00:04:28,710 --> 00:04:27,120
nickname

111
00:04:30,469 --> 00:04:28,720
and there's always interesting stories

112
00:04:31,350 --> 00:04:30,479
behind it can you tell us what the story

113
00:04:33,510 --> 00:04:31,360

is behind turtles

114

00:04:34,950 --> 00:04:33,520

yeah it's a great story so when we were

115

00:04:37,590 --> 00:04:34,960

announced by

116

00:04:39,350 --> 00:04:37,600

vice president mike pence he great he

117

00:04:40,070 --> 00:04:39,360

gave a great metaphor which i had never

118

00:04:41,270 --> 00:04:40,080

heard of i think

119

00:04:43,590 --> 00:04:41,280

maybe if you're from the south you might

120

00:04:47,270 --> 00:04:43,600

have heard of this metaphor

121

00:04:49,990 --> 00:04:47,280

but he alluded to our successes our

122

00:04:51,030 --> 00:04:50,000

the newly formed class of astronauts our

123

00:04:54,150 --> 00:04:51,040

our successes

124

00:04:56,710 --> 00:04:54,160

our trials and tribulations as

125

00:04:58,150 --> 00:04:56,720

a turtle on a fence post and where he

126

00:04:59,749 --> 00:04:58,160

was going with that

127

00:05:01,110 --> 00:04:59,759

is that when you see a turtle on a fence

128

00:05:01,990 --> 00:05:01,120

post which i personally have never seen

129

00:05:04,870 --> 00:05:02,000

a turtle

130

00:05:07,270 --> 00:05:04,880

i haven't either but if you see one you

131

00:05:10,469 --> 00:05:07,280

know it didn't get there by itself

132

00:05:12,950 --> 00:05:10,479

which is homage i think to just the

133

00:05:14,710 --> 00:05:12,960

parents teachers coaches mentors friends

134

00:05:16,550 --> 00:05:14,720

family everyone that we've had

135

00:05:18,390 --> 00:05:16,560

that have supported us on this journey

136

00:05:21,110 --> 00:05:18,400

to get to where we are today

137

00:05:21,670 --> 00:05:21,120

and so uh that metaphor then kind of

138

00:05:24,870 --> 00:05:21,680

carried

139

00:05:25,749 --> 00:05:24,880

its own weight and uh you know the vice

140

00:05:28,950 --> 00:05:25,759

president

141

00:05:30,629 --> 00:05:28,960

naming your class

142

00:05:31,990 --> 00:05:30,639

it usually doesn't go away yeah you

143

00:05:33,990 --> 00:05:32,000

stick with that that makes sense

144

00:05:35,189 --> 00:05:34,000

awesome so sunny how about you give us a

145

00:05:37,189 --> 00:05:35,199

little bit of your background

146

00:05:39,270 --> 00:05:37,199

yeah well my class was the penguins just

147

00:05:39,830 --> 00:05:39,280

to jump on that topic real quickly

148

00:05:42,950 --> 00:05:39,840

because uh

149

00:05:44,629 --> 00:05:42,960

i joined when we were just starting to

150

00:05:46,390 --> 00:05:44,639

build the international space station

151
00:05:47,670 --> 00:05:46,400
we had a lot of astronauts in the office

152
00:05:49,110 --> 00:05:47,680
and people were

153
00:05:51,110 --> 00:05:49,120
thinking that like oh man there's so

154
00:05:52,550 --> 00:05:51,120
many astronauts you'll never get to fly

155
00:05:54,070 --> 00:05:52,560
little did we know really what was going

156
00:05:55,909 --> 00:05:54,080
to happen i mean there was one shuttle

157
00:05:57,749 --> 00:05:55,919
flight after another and i was lucky

158
00:05:59,909 --> 00:05:57,759
enough to fly on a space shuttle up to

159
00:06:01,350 --> 00:05:59,919
the international space station

160
00:06:02,790 --> 00:06:01,360
and stay there and work on the

161
00:06:04,230 --> 00:06:02,800
construction of the space station in

162
00:06:06,230 --> 00:06:04,240
2007

163
00:06:08,309 --> 00:06:06,240

and then i got a second flight um on a

164

00:06:10,309 --> 00:06:08,319

russian soyuz after we stopped flying

165

00:06:11,510 --> 00:06:10,319

uh the space shuttles from right over

166

00:06:14,150 --> 00:06:11,520

right behind us

167

00:06:16,469 --> 00:06:14,160

um and uh launched out of kazakhstan and

168

00:06:19,510 --> 00:06:16,479

it's really awesome to be back here

169

00:06:21,189 --> 00:06:19,520

to be assigned to be on a on a starliner

170

00:06:22,469 --> 00:06:21,199

flight the boeing starliner which is uh

171

00:06:25,270 --> 00:06:22,479

from this launch pad over

172

00:06:26,950 --> 00:06:25,280

to my left over here um i was assigned

173

00:06:29,110 --> 00:06:26,960

to that mission at the same time

174

00:06:30,870 --> 00:06:29,120

the crew one guys were launched were

175

00:06:33,830 --> 00:06:30,880

assigned to their mission so

176

00:06:35,430 --> 00:06:33,840

it's it's fun to see how these programs

177

00:06:36,150 --> 00:06:35,440

have been working together bouncing off

178

00:06:38,390 --> 00:06:36,160

each other

179

00:06:39,189 --> 00:06:38,400

uh all that new technology and so that's

180

00:06:41,749 --> 00:06:39,199

been my

181

00:06:43,189 --> 00:06:41,759

my history for the last number of years

182

00:06:44,469 --> 00:06:43,199

as long as probably johnny's been alive

183

00:06:46,629 --> 00:06:44,479

i'm a little older than him

184

00:06:48,550 --> 00:06:46,639

um but before that i was a navy

185

00:06:49,350 --> 00:06:48,560

helicopter pilot and a test pilot and

186

00:06:51,830 --> 00:06:49,360

that's what

187

00:06:52,710 --> 00:06:51,840

got me to the astronaut office was you

188

00:06:54,469 --> 00:06:52,720

know just that

189

00:06:56,230 --> 00:06:54,479

idea of like really how does this

190

00:06:57,830 --> 00:06:56,240

helicopter fly that engineering that

191

00:06:59,990 --> 00:06:57,840

science that map i really wanted to

192

00:07:03,909 --> 00:07:00,000

figure out and we had the opportunity

193

00:07:05,909 --> 00:07:03,919

at that time to meet um some of the uh

194

00:07:07,510 --> 00:07:05,919

older than me astronauts like john young

195

00:07:09,510 --> 00:07:07,520

who actually talked about landing on the

196

00:07:11,189 --> 00:07:09,520

moon which were going to do again

197

00:07:12,870 --> 00:07:11,199

um and some of the some things that they

198

00:07:13,909 --> 00:07:12,880

had to do and one of the things they had

199

00:07:15,510 --> 00:07:13,919

some type of

200

00:07:17,110 --> 00:07:15,520

vertical landing simulator like a

201

00:07:19,110 --> 00:07:17,120

helicopter and i thought wow

202

00:07:21,189 --> 00:07:19,120

maybe i have some of the skills that

203

00:07:22,870 --> 00:07:21,199

would allow me to be an astronaut so

204

00:07:24,309 --> 00:07:22,880

that's sort of the full circle and i

205

00:07:25,749 --> 00:07:24,319

hope um right over there we're going to

206

00:07:25,990 --> 00:07:25,759

be getting ready to go back to the moon

207

00:07:28,309 --> 00:07:26,000

so

208

00:07:30,230 --> 00:07:28,319

yeah johnny's class will be doing very

209

00:07:31,029 --> 00:07:30,240

good so and if you hear the cars zipping

210

00:07:33,029 --> 00:07:31,039

by here

211

00:07:34,629 --> 00:07:33,039

uh it's definitely a very active space

212

00:07:36,710 --> 00:07:34,639

um and as sonny mentioned

213

00:07:37,830 --> 00:07:36,720

flying aboard shuttle she came by this

214

00:07:40,070 --> 00:07:37,840

space uh

215

00:07:41,990 --> 00:07:40,080

in an astro van at the time um on her

216

00:07:43,110 --> 00:07:42,000

way to right up to the pad this is where

217

00:07:44,070 --> 00:07:43,120

the crews will come and you'll get to

218

00:07:46,629 --> 00:07:44,080

see that tomorrow

219

00:07:48,710 --> 00:07:46,639

during the countdown procedures and so

220

00:07:50,469 --> 00:07:48,720

they'll be in tesla's tomorrow um so

221

00:07:52,550 --> 00:07:50,479

anxious i think there's a new astro van

222

00:07:55,430 --> 00:07:52,560

that you will hopefully get to uh

223

00:07:56,710 --> 00:07:55,440

be in when you do head over for that um

224

00:07:58,469 --> 00:07:56,720

crew flight test

225

00:08:00,150 --> 00:07:58,479

here as soon as we can get there safely

226

00:08:02,629 --> 00:08:00,160

so excited for that yep

227

00:08:04,150 --> 00:08:02,639

um so let's jump right into questions uh

228

00:08:05,749 --> 00:08:04,160

so the first one we got

229

00:08:07,189 --> 00:08:05,759

uh my son wants to be an astronaut when

230

00:08:09,430 --> 00:08:07,199

he grows up he's nine

231

00:08:10,469 --> 00:08:09,440

he's wondering how you go about becoming

232

00:08:13,670 --> 00:08:10,479

an astronaut

233

00:08:15,510 --> 00:08:13,680

so you both are uh from the navy

234

00:08:17,110 --> 00:08:15,520

so is that a common thread or is that

235

00:08:19,510 --> 00:08:17,120

just a coincidence

236

00:08:21,110 --> 00:08:19,520

you know it's not necessary at all we

237

00:08:21,990 --> 00:08:21,120

have people from the military of course

238

00:08:23,749 --> 00:08:22,000

johnny and i

239

00:08:25,029 --> 00:08:23,759

like you mentioned josh are from the

240

00:08:26,950 --> 00:08:25,039

from the navy but we have people from

241

00:08:27,909 --> 00:08:26,960

the air force we have people from the

242

00:08:29,670 --> 00:08:27,919

coast guard

243

00:08:31,430 --> 00:08:29,680

we have people from the army but that's

244

00:08:32,070 --> 00:08:31,440

only a portion of our office we also

245

00:08:34,630 --> 00:08:32,080

have

246

00:08:35,670 --> 00:08:34,640

scientists engineers teachers doctors

247

00:08:38,149 --> 00:08:35,680

veterinarians

248

00:08:39,990 --> 00:08:38,159

anybody who's had a science type of

249

00:08:43,190 --> 00:08:40,000

field science math engineering

250

00:08:45,030 --> 00:08:43,200

uh field um and has

251

00:08:46,470 --> 00:08:45,040

done their field for a little while

252

00:08:48,310 --> 00:08:46,480

shown that they are they're part of a

253

00:08:50,550 --> 00:08:48,320

team just like johnny talked about

254

00:08:52,230 --> 00:08:50,560

they have that concept of teamwork uh

255

00:08:53,509 --> 00:08:52,240

leadership followership that's those are

256

00:08:54,230 --> 00:08:53,519

the type of people that we're looking

257

00:08:56,150 --> 00:08:54,240

for so

258

00:08:57,430 --> 00:08:56,160

anybody has that i always think of it

259

00:08:58,790 --> 00:08:57,440

like this way um

260

00:08:59,910 --> 00:08:58,800

you don't really know all the astronaut

261

00:09:01,670 --> 00:08:59,920

stuff where else are you going to learn

262

00:09:02,870 --> 00:09:01,680

it beside for being an astronaut right

263

00:09:03,910 --> 00:09:02,880

but we just want to make sure that you

264

00:09:05,990 --> 00:09:03,920

know how to learn

265

00:09:07,350 --> 00:09:06,000

and you know taking on one of these

266

00:09:09,670 --> 00:09:07,360

types of fields in

267

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

in stem really shows that you you can

268

00:09:11,670 --> 00:09:11,040

learn and then you can play well with

269

00:09:13,590 --> 00:09:11,680

others so

270

00:09:15,750 --> 00:09:13,600

a couple of things that you you learn in

271

00:09:17,750 --> 00:09:15,760

kindergarten is what we really look for

272

00:09:18,710 --> 00:09:17,760

awesome yeah you mentioned followership

273

00:09:20,230 --> 00:09:18,720

i think that's something that's really

274

00:09:20,790 --> 00:09:20,240

good that i hear astronauts mention a

275

00:09:23,110 --> 00:09:20,800

good bit

276

00:09:24,710 --> 00:09:23,120

that we hear about leadership a lot uh

277

00:09:26,790 --> 00:09:24,720

but followership is

278

00:09:28,470 --> 00:09:26,800

as important if not maybe more important

279

00:09:29,590 --> 00:09:28,480

um johnny curious if that plays into

280

00:09:30,230 --> 00:09:29,600

your career and what else you would add

281

00:09:32,310 --> 00:09:30,240

to kind of the

282

00:09:34,230 --> 00:09:32,320

how do you become an astronaut question

283

00:09:36,630 --> 00:09:34,240

yeah so i can agree with sunny

284

00:09:38,790 --> 00:09:36,640

anymore nearly half my class is

285

00:09:41,590 --> 00:09:38,800

comprised of non-military

286

00:09:42,790 --> 00:09:41,600

folks i think the most important part if

287

00:09:43,910 --> 00:09:42,800

you want to be an astronaut and you're

288

00:09:46,949 --> 00:09:43,920

nine years old

289

00:09:50,470 --> 00:09:46,959

is just pursue your passions

290

00:09:52,710 --> 00:09:50,480

life is so interesting there's so many

291

00:09:54,310 --> 00:09:52,720

amazing things to learn about study

292

00:09:56,070 --> 00:09:54,320

science there's uh

293

00:09:57,590 --> 00:09:56,080

typically you do you do need a stem

294

00:09:59,829 --> 00:09:57,600

background so you know

295

00:10:00,710 --> 00:09:59,839

science technology engineering math

296

00:10:03,030 --> 00:10:00,720

medicine

297

00:10:04,790 --> 00:10:03,040

these are all avenues to become an

298

00:10:05,990 --> 00:10:04,800

astronaut but the most important thing

299

00:10:08,310 --> 00:10:06,000

is whether you do it through the

300

00:10:10,630 --> 00:10:08,320

military or you're a civilian

301

00:10:12,230 --> 00:10:10,640

you're a doctor engineer is that you

302

00:10:15,030 --> 00:10:12,240

just enjoy what you do

303

00:10:16,310 --> 00:10:15,040

everything sunny said is correct and we

304

00:10:18,150 --> 00:10:16,320

really really want to

305

00:10:21,590 --> 00:10:18,160

find people that are passionate about

306

00:10:23,910 --> 00:10:21,600

what they do for a living

307

00:10:24,630 --> 00:10:23,920

and uh remind what was the other

308

00:10:26,790 --> 00:10:24,640

question yeah

309

00:10:28,230 --> 00:10:26,800

uh just a followership and just how do

310

00:10:29,509 --> 00:10:28,240

you become an astronaut and i think that

311

00:10:30,550 --> 00:10:29,519

uh you definitely you hit on both of

312

00:10:32,470 --> 00:10:30,560

those but if you got more to say i'd

313

00:10:33,750 --> 00:10:32,480

love to hear it follow you know you

314

00:10:35,030 --> 00:10:33,760

can't be a leader unless you know how to

315

00:10:37,430 --> 00:10:35,040

be a follower yeah

316

00:10:38,790 --> 00:10:37,440

it's they're they're appeasing a paw to

317

00:10:40,949 --> 00:10:38,800

come together

318

00:10:42,470 --> 00:10:40,959

we could take up the rest of this time

319

00:10:43,910 --> 00:10:42,480

talking about what it means to be a good

320

00:10:46,630 --> 00:10:43,920

follower a good leader

321

00:10:47,509 --> 00:10:46,640

but the core principles are the same and

322

00:10:49,590 --> 00:10:47,519

you know there's

323

00:10:51,110 --> 00:10:49,600

nothing new that people haven't already

324

00:10:52,790 --> 00:10:51,120

heard um

325

00:10:55,430 --> 00:10:52,800

at the heart of it it's be a good

326

00:10:58,230 --> 00:10:55,440

teammate be a good human being

327

00:10:59,910 --> 00:10:58,240

these are all aspects that make a person

328

00:11:01,269 --> 00:10:59,920

a good teammate and definitely a good

329

00:11:03,990 --> 00:11:01,279

astronaut yeah

330

00:11:05,350 --> 00:11:04,000

awesome so what did you both study in

331

00:11:06,069 --> 00:11:05,360

school that was a question that came in

332

00:11:07,670 --> 00:11:06,079

so

333

00:11:09,670 --> 00:11:07,680

whether it be interest in high school or

334

00:11:12,550 --> 00:11:09,680

would you study in college

335

00:11:13,990 --> 00:11:12,560

yeah so i went to the naval academy so

336

00:11:15,590 --> 00:11:14,000

we have a little bit of engineering

337

00:11:17,110 --> 00:11:15,600

force down our throat i didn't even know

338

00:11:18,389 --> 00:11:17,120

what engineering was when i went to

339

00:11:20,069 --> 00:11:18,399

college i had no

340

00:11:22,630 --> 00:11:20,079

no clue i knew that there was going to

341

00:11:24,230 --> 00:11:22,640

be a little bit of math involved and so

342

00:11:25,829 --> 00:11:24,240

luckily i was pretty good in math in

343

00:11:27,990 --> 00:11:25,839

high school and so you know that

344

00:11:30,069 --> 00:11:28,000

that carried myself through the naval

345

00:11:31,269 --> 00:11:30,079

academy but i was exposed to

346

00:11:32,790 --> 00:11:31,279

all sorts of cool things about

347

00:11:34,310 --> 00:11:32,800

engineering like how do you build a

348

00:11:36,069 --> 00:11:34,320

rocket how do you build this platform

349

00:11:38,150 --> 00:11:36,079

we're standing on how do you build a car

350

00:11:39,910 --> 00:11:38,160

how do you build a bridge and i was like

351
00:11:42,470 --> 00:11:39,920
wow that's what engineering is

352
00:11:43,269 --> 00:11:42,480
and i like i said i had no idea i

353
00:11:46,069 --> 00:11:43,279
struggled

354
00:11:47,829 --> 00:11:46,079
in college i will say that also and it

355
00:11:48,310 --> 00:11:47,839
wasn't until i got to really put my

356
00:11:50,069 --> 00:11:48,320
hands

357
00:11:51,670 --> 00:11:50,079
on something that was built which is a

358
00:11:53,110 --> 00:11:51,680
helicopter and really

359
00:11:55,269 --> 00:11:53,120
start thinking like how does this thing

360
00:11:55,670 --> 00:11:55,279
work that i really tapped back into

361
00:11:58,389 --> 00:11:55,680
those

362
00:11:59,590 --> 00:11:58,399
engineering classes that i had had in

363
00:12:01,110 --> 00:11:59,600

the naval academy

364

00:12:02,870 --> 00:12:01,120

and got my masters as a result of it

365

00:12:04,310 --> 00:12:02,880

because i was really sort of curious and

366

00:12:07,509 --> 00:12:04,320

went to test pilot school

367

00:12:08,710 --> 00:12:07,519

so i think not every path is straight

368

00:12:10,710 --> 00:12:08,720

not every path is

369

00:12:12,550 --> 00:12:10,720

easy but just like johnny said when you

370

00:12:13,750 --> 00:12:12,560

find what is your passion

371

00:12:15,269 --> 00:12:13,760

then you're going to want you're going

372

00:12:16,790 --> 00:12:15,279

to be curious and you want to know more

373

00:12:17,350 --> 00:12:16,800

about it and you're going to enjoy it so

374

00:12:20,550 --> 00:12:17,360

that's

375

00:12:22,550 --> 00:12:20,560

path led me here

376

00:12:23,750 --> 00:12:22,560

through education cool and johnny what'd

377

00:12:26,150 --> 00:12:23,760

you study

378

00:12:27,910 --> 00:12:26,160

yes i studied math in undergrad and of

379

00:12:28,710 --> 00:12:27,920

course studying medicine in graduate

380

00:12:32,389 --> 00:12:28,720

school but i

381

00:12:38,790 --> 00:12:32,399

i echo what sunny said in a lot of ways

382

00:12:41,190 --> 00:12:38,800

what you study is not that important

383

00:12:44,150 --> 00:12:41,200

[Music]

384

00:12:44,550 --> 00:12:44,160

i think that the love and the hunger to

385

00:12:47,990 --> 00:12:44,560

learn

386

00:12:49,990 --> 00:12:48,000

more about the sciences

387

00:12:51,509 --> 00:12:50,000

is what's really really important this

388

00:12:52,790 --> 00:12:51,519

lifelong learning that's

389

00:12:54,790 --> 00:12:52,800

that's something that i heard in grad

390

00:12:55,670 --> 00:12:54,800

school and stuck with me is that we

391

00:12:57,030 --> 00:12:55,680

never stop learning

392

00:12:58,629 --> 00:12:57,040

you know the day you stop learning the

393

00:12:59,590 --> 00:12:58,639

day you're an expert or a master in

394

00:13:02,389 --> 00:12:59,600

anything

395

00:13:04,949 --> 00:13:02,399

i think you've doomed yourself to really

396

00:13:06,870 --> 00:13:04,959

being able to maximize your potential

397

00:13:08,389 --> 00:13:06,880

so i think the important thing is that

398

00:13:09,430 --> 00:13:08,399

you love to learn you're willing to

399

00:13:11,030 --> 00:13:09,440

learn

400

00:13:13,590 --> 00:13:11,040

the those are the everything else comes

401
00:13:15,430 --> 00:13:13,600
naturally of course requires hard work

402
00:13:16,790 --> 00:13:15,440
and that kind of stems from a question i

403
00:13:17,509 --> 00:13:16,800
often get is like what's the best

404
00:13:19,829 --> 00:13:17,519
subject

405
00:13:21,430 --> 00:13:19,839
to become an astronaut i i don't think

406
00:13:22,150 --> 00:13:21,440
that's a i don't think there's an answer

407
00:13:23,350 --> 00:13:22,160
for that

408
00:13:25,190 --> 00:13:23,360
and that's what i kind of meant by it

409
00:13:27,030 --> 00:13:25,200
doesn't matter what you study

410
00:13:28,310 --> 00:13:27,040
is that what's important is that you

411
00:13:28,790 --> 00:13:28,320
just follow your passion that's going to

412
00:13:30,629 --> 00:13:28,800
be a thing

413
00:13:32,389 --> 00:13:30,639

we're going to keep repeating yeah and i

414

00:13:33,910 --> 00:13:32,399

think that you did qualify that well by

415

00:13:35,030 --> 00:13:33,920

just saying that it's a matter of that

416

00:13:36,790 --> 00:13:35,040

drive for learning

417

00:13:38,389 --> 00:13:36,800

is that and i discovered that myself is

418

00:13:38,949 --> 00:13:38,399

that a lot of times the degree that you

419

00:13:41,509 --> 00:13:38,959

get

420

00:13:43,590 --> 00:13:41,519

really just identifies that you have

421

00:13:45,030 --> 00:13:43,600

demonstrated that you have the capacity

422

00:13:46,870 --> 00:13:45,040

and the willingness to like invest

423

00:13:48,310 --> 00:13:46,880

yourself and people

424

00:13:50,069 --> 00:13:48,320

can take that and mold that into what it

425

00:13:51,829 --> 00:13:50,079

needs to be uh so

426

00:13:53,110 --> 00:13:51,839

uh sunny for you since you've been to

427

00:13:55,750 --> 00:13:53,120

space there was a question of

428

00:13:56,150 --> 00:13:55,760

what was your favorite meal in space oh

429

00:13:59,189 --> 00:13:56,160

wow

430

00:14:01,269 --> 00:13:59,199

there's actually uh it's funny because

431

00:14:02,710 --> 00:14:01,279

our friend and colleague kate rubin is

432

00:14:04,310 --> 00:14:02,720

up in space right now and

433

00:14:05,990 --> 00:14:04,320

as she was getting ready to go i was

434

00:14:07,670 --> 00:14:06,000

thinking about oh yeah there's so many

435

00:14:09,269 --> 00:14:07,680

good things to eat up there

436

00:14:10,470 --> 00:14:09,279

it sounds so crazy and ridiculous

437

00:14:11,430 --> 00:14:10,480

there's great things to eat down here

438

00:14:13,350 --> 00:14:11,440

too but i did

439

00:14:15,189 --> 00:14:13,360

i do absolutely miss some of the food

440

00:14:17,030 --> 00:14:15,199

that we had up there

441

00:14:18,710 --> 00:14:17,040

i don't know i like this like most of

442

00:14:20,069 --> 00:14:18,720

the food is like a casserole so it's

443

00:14:21,750 --> 00:14:20,079

sort of smashed together

444

00:14:23,189 --> 00:14:21,760

they had like lasagna that sort of

445

00:14:24,870 --> 00:14:23,199

smashed together and then

446

00:14:26,230 --> 00:14:24,880

pesto sauce i would put on that and i

447

00:14:28,230 --> 00:14:26,240

just i just loved it

448

00:14:29,829 --> 00:14:28,240

and then my go-to food for space walks

449

00:14:31,110 --> 00:14:29,839

was this thing called tavorig which is

450

00:14:33,110 --> 00:14:31,120

like cottage cheese

451

00:14:34,949 --> 00:14:33,120

with nuts and some sugar in it and it's

452

00:14:37,030 --> 00:14:34,959

a little bit like paste like um

453

00:14:38,790 --> 00:14:37,040

cement it tastes really good it's you

454

00:14:40,230 --> 00:14:38,800

know sweet but then it just sticks with

455

00:14:42,310 --> 00:14:40,240

you and it's just a protein for

456

00:14:44,150 --> 00:14:42,320

all day long and it's uh i really miss

457

00:14:46,230 --> 00:14:44,160

that because you don't get it down here

458

00:14:48,230 --> 00:14:46,240

so anyway i gotta ask you because you

459

00:14:48,870 --> 00:14:48,240

just made a comment do you eat on space

460

00:14:51,110 --> 00:14:48,880

wonks

461

00:14:52,389 --> 00:14:51,120

no no no so okay because it was it was

462

00:14:52,629 --> 00:14:52,399

the food that i ate beforehand because

463

00:14:56,069 --> 00:14:52,639

it

464

00:14:58,870 --> 00:14:56,079

like that sure bowl of oatmeal that they

465

00:15:01,509 --> 00:15:00,230

stick with you all day long i was gonna

466

00:15:02,710 --> 00:15:01,519

say if there's some cool way that you

467

00:15:04,150 --> 00:15:02,720

eat while space walking that i didn't

468

00:15:04,710 --> 00:15:04,160

know about i was about to get really

469

00:15:07,269 --> 00:15:04,720

excited

470

00:15:08,629 --> 00:15:07,279

so uh so johnny one of the things that

471

00:15:09,750 --> 00:15:08,639

our viewers may not know is that there's

472

00:15:11,110 --> 00:15:09,760

a food kitchen

473

00:15:12,790 --> 00:15:11,120

where you kind of get to sample and kind

474

00:15:14,069 --> 00:15:12,800

of pick some meals while you go

475

00:15:15,990 --> 00:15:14,079

have you gotten a chance to do that yet

476

00:15:16,389 --> 00:15:16,000

so have you picked out what meals you

477

00:15:19,189 --> 00:15:16,399

would

478

00:15:20,150 --> 00:15:19,199

like when you do go to space yeah so our

479

00:15:22,470 --> 00:15:20,160

entire class is

480

00:15:23,990 --> 00:15:22,480

part of being an ascan when we were

481

00:15:26,230 --> 00:15:24,000

going through the candidacy when we were

482

00:15:28,310 --> 00:15:26,240

learning to be astronauts was definitely

483

00:15:31,350 --> 00:15:28,320

sampling all the different various foods

484

00:15:34,389 --> 00:15:31,360

how to operate the equipment

485

00:15:35,829 --> 00:15:34,399

to rehydrate your food so i

486

00:15:37,509 --> 00:15:35,839

got to say i mean i got to preface this

487

00:15:41,590 --> 00:15:37,519

and i just i love

488

00:15:45,509 --> 00:15:41,600

food i love all types of food there's i

489

00:15:46,790 --> 00:15:45,519

i have no biases so i liked it all

490

00:15:48,790 --> 00:15:46,800

but i'm also the kind of person that

491

00:15:50,150 --> 00:15:48,800

didn't mind occasional mres

492

00:15:53,350 --> 00:15:50,160

as long as there weren't too many of

493

00:15:55,829 --> 00:15:53,360

them so they're great the food that

494

00:15:56,470 --> 00:15:55,839

our food lab they're just the best at

495

00:15:59,990 --> 00:15:56,480

what they do

496

00:16:02,710 --> 00:16:00,000

they make great food it's delicious it's

497

00:16:03,910 --> 00:16:02,720

it's nutritious it really maximizes our

498

00:16:06,470 --> 00:16:03,920

performance on

499

00:16:07,509 --> 00:16:06,480

on space station i will say though when

500

00:16:09,509 --> 00:16:07,519

we have other

501
00:16:10,949 --> 00:16:09,519
cargo vehicles that come up sometimes

502
00:16:14,870 --> 00:16:10,959
they bring fresh fruit

503
00:16:17,670 --> 00:16:14,880
or vegetables like apples or oranges

504
00:16:19,030 --> 00:16:17,680
or even like onions and bulbs of garlic

505
00:16:19,990 --> 00:16:19,040
i don't know why folks like that but

506
00:16:21,189 --> 00:16:20,000
it's a crunch

507
00:16:23,350 --> 00:16:21,199
and it's one of the things like i was

508
00:16:25,269 --> 00:16:23,360
mentioning the lasagna sort of gooey

509
00:16:27,350 --> 00:16:25,279
and that devouring stuff is sort of

510
00:16:28,310 --> 00:16:27,360
gooey and so having that crunch that's

511
00:16:29,749 --> 00:16:28,320
one of those things that

512
00:16:31,509 --> 00:16:29,759
i felt like i missed from earth

513
00:16:33,269 --> 00:16:31,519

sometimes you just want to

514

00:16:34,790 --> 00:16:33,279

crunch on stuff and you don't get that

515

00:16:35,990 --> 00:16:34,800

opportunity very often unless we have a

516

00:16:37,110 --> 00:16:36,000

visiting vehicle come

517

00:16:38,790 --> 00:16:37,120

come bring it i bet you there's some

518

00:16:39,030 --> 00:16:38,800

good stuff on that spacecraft right

519

00:16:41,910 --> 00:16:39,040

there

520

00:16:42,550 --> 00:16:41,920

yeah absolutely who knows what kind of

521

00:16:45,110 --> 00:16:42,560

wonderful

522

00:16:46,069 --> 00:16:45,120

treats there are there so sunny question

523

00:16:49,189 --> 00:16:46,079

came in about

524

00:16:49,990 --> 00:16:49,199

taking personal items to space we know

525

00:16:51,430 --> 00:16:50,000

that it's expensive

526

00:16:52,629 --> 00:16:51,440

to get things to space there's not a lot

527

00:16:53,590 --> 00:16:52,639

of room it's it's definitely tight

528

00:16:55,269 --> 00:16:53,600

quarters in there

529

00:16:56,710 --> 00:16:55,279

uh so i think you get to take a few

530

00:16:58,949 --> 00:16:56,720

things with you uh

531

00:17:00,550 --> 00:16:58,959

what kinds of things did you take yeah

532

00:17:03,350 --> 00:17:00,560

so you know i think

533

00:17:04,150 --> 00:17:03,360

the for me it was remembering people

534

00:17:07,669 --> 00:17:04,160

down here

535

00:17:10,230 --> 00:17:07,679

animal lover

536

00:17:11,510 --> 00:17:10,240

um so i have a i have a necklace that

537

00:17:13,590 --> 00:17:11,520

has a dog paw on it

538

00:17:14,949 --> 00:17:13,600

and i i brought my dog paw with me and

539

00:17:17,829 --> 00:17:14,959

has all the names of my

540

00:17:19,990 --> 00:17:17,839

my former dogs and then um you know some

541

00:17:21,669 --> 00:17:20,000

little mementos from my father

542

00:17:23,029 --> 00:17:21,679

gave me i didn't really want to read in

543

00:17:23,909 --> 00:17:23,039

space because you can read on earth i

544

00:17:25,510 --> 00:17:23,919

wanted to do things that were

545

00:17:27,350 --> 00:17:25,520

interesting and different in space

546

00:17:29,350 --> 00:17:27,360

but he gave me a bhagavad gita to take

547

00:17:31,830 --> 00:17:29,360

up a mini version so it wasn't

548

00:17:33,590 --> 00:17:31,840

too complicated to read um so that was

549

00:17:36,070 --> 00:17:33,600

you know a memento from him

550

00:17:36,870 --> 00:17:36,080

and then um i didn't really bring

551
00:17:39,190 --> 00:17:36,880
anything

552
00:17:40,789 --> 00:17:39,200
specifically from my mom's side of the

553
00:17:42,950 --> 00:17:40,799
family she's slovenian

554
00:17:44,789 --> 00:17:42,960
but one of the visiting vehicles sent up

555
00:17:46,630 --> 00:17:44,799
some sausages that were slovenian

556
00:17:47,750 --> 00:17:46,640
sausages and that was that sort of

557
00:17:49,430 --> 00:17:47,760
brings you back you know you sort of

558
00:17:50,870 --> 00:17:49,440
close your eyes in the nostalgia of

559
00:17:51,590 --> 00:17:50,880
being home and being with your family

560
00:17:53,590 --> 00:17:51,600
and friends

561
00:17:54,870 --> 00:17:53,600
awesome johnny any thoughts of what you

562
00:17:55,909 --> 00:17:54,880
will take with you have you kind of

563
00:17:58,470 --> 00:17:55,919

thought through like

564

00:17:59,430 --> 00:17:58,480

stuff that you'd want to take yeah i

565

00:18:01,110 --> 00:17:59,440

mean i think

566

00:18:02,870 --> 00:18:01,120

probably the just typical things of

567

00:18:05,510 --> 00:18:02,880

course a picture of my family

568

00:18:06,710 --> 00:18:05,520

you know my beautiful wife children the

569

00:18:08,789 --> 00:18:06,720

people that mean a lot to me i think

570

00:18:10,549 --> 00:18:08,799

also probably mementos that i've

571

00:18:12,310 --> 00:18:10,559

accumulated over the years from people

572

00:18:14,470 --> 00:18:12,320

that have meant a lot to me

573

00:18:15,350 --> 00:18:14,480

i think one thing that i would really

574

00:18:18,549 --> 00:18:15,360

want to take

575

00:18:18,870 --> 00:18:18,559

is a nice watch and i think i've always

576

00:18:22,310 --> 00:18:18,880

just

577

00:18:24,630 --> 00:18:22,320

admired the elegant beauty

578

00:18:25,750 --> 00:18:24,640

and mechanics and engineering behind

579

00:18:27,270 --> 00:18:25,760

watches so i think that would be

580

00:18:30,950 --> 00:18:27,280

something cool to bring in space

581

00:18:32,230 --> 00:18:30,960

awesome very cool um

582

00:18:33,990 --> 00:18:32,240

how excited are you guys for launch

583

00:18:35,190 --> 00:18:34,000

tomorrow uh johnny

584

00:18:37,190 --> 00:18:35,200

we were talking about this before the

585

00:18:37,830 --> 00:18:37,200

show and you haven't seen many launches

586

00:18:40,150 --> 00:18:37,840

before

587

00:18:42,710 --> 00:18:40,160

so uh how many launches have you seen

588

00:18:45,430 --> 00:18:42,720

and and what's your feeling on tomorrow

589

00:18:46,950 --> 00:18:45,440

i've seen one launch before and it was a

590

00:18:49,430 --> 00:18:46,960

soyuz in kazakhstan

591

00:18:50,230 --> 00:18:49,440

for christina cook's launch back in

592

00:18:53,990 --> 00:18:50,240

february

593

00:18:57,350 --> 00:18:54,000

of 2019 almost a year and a half ago

594

00:18:58,630 --> 00:18:57,360

and it was i'm sure sunny can articulate

595

00:18:59,830 --> 00:18:58,640

much better than i can but it's

596

00:19:02,070 --> 00:18:59,840

emotional

597

00:19:03,270 --> 00:19:02,080

there's a lot of things going on you're

598

00:19:05,510 --> 00:19:03,280

excited

599

00:19:06,549 --> 00:19:05,520

um there's just so much enormous power

600

00:19:09,190 --> 00:19:06,559

going on it's

601
00:19:10,070 --> 00:19:09,200
really surreal and knowing that there's

602
00:19:13,669 --> 00:19:10,080
people you love

603
00:19:16,070 --> 00:19:13,679
on that rocket it's just i don't

604
00:19:16,870 --> 00:19:16,080
think anything compares to it so i'm

605
00:19:18,390 --> 00:19:16,880
super excited

606
00:19:20,390 --> 00:19:18,400
i know it's going to be a great event

607
00:19:22,310 --> 00:19:20,400
tomorrow um

608
00:19:23,430 --> 00:19:22,320
i'm just glad to be able to live and

609
00:19:26,310 --> 00:19:23,440
witness that

610
00:19:27,990 --> 00:19:26,320
cool sunny yeah rockets are super cool

611
00:19:29,669 --> 00:19:28,000
absolutely without a doubt you know you

612
00:19:30,710 --> 00:19:29,679
come here you feel it you know not only

613
00:19:32,070 --> 00:19:30,720

you see it but you can

614

00:19:34,150 --> 00:19:32,080

feel it just because there's so much

615

00:19:35,510 --> 00:19:34,160

power behind them and so and you can

616

00:19:37,590 --> 00:19:35,520

look at them on tv and they

617

00:19:39,909 --> 00:19:37,600

they're they're absolutely cool on tv as

618

00:19:42,950 --> 00:19:39,919

well or on the on the internet

619

00:19:44,870 --> 00:19:42,960

um but knowing people on there gives it

620

00:19:47,190 --> 00:19:44,880

that next element you know gives it

621

00:19:48,549 --> 00:19:47,200

one more step up and you know those guys

622

00:19:52,070 --> 00:19:48,559

in the spacecraft tomorrow

623

00:19:53,029 --> 00:19:52,080

mike victor shannon uh soichi they're

624

00:19:55,029 --> 00:19:53,039

our friends

625

00:19:56,310 --> 00:19:55,039

and um you know people ask all the time

626

00:19:58,070 --> 00:19:56,320

like do you know do you know those

627

00:19:58,710 --> 00:19:58,080

astronauts who had bob and doug from you

628

00:20:00,789 --> 00:19:58,720

know the

629

00:20:02,390 --> 00:20:00,799

the demo 2 mission i'm like yeah of

630

00:20:05,270 --> 00:20:02,400

course there's only so many of us we're

631

00:20:07,190 --> 00:20:05,280

we are family we all know each other and

632

00:20:09,669 --> 00:20:07,200

you know there's so many people here

633

00:20:11,430 --> 00:20:09,679

that help us get to that spot and get to

634

00:20:14,070 --> 00:20:11,440

that top of that rocket and then

635

00:20:14,470 --> 00:20:14,080

it going you just know this accumulation

636

00:20:17,110 --> 00:20:14,480

of

637

00:20:18,710 --> 00:20:17,120

hard work and love like johnny mentioned

638

00:20:21,190 --> 00:20:18,720

for the people who are on board

639

00:20:21,750 --> 00:20:21,200

is is just overwhelming it's pretty

640

00:20:23,510 --> 00:20:21,760

amazing

641

00:20:25,029 --> 00:20:23,520

awesome yeah for those that if you

642

00:20:26,549 --> 00:20:25,039

haven't seen a launch or you come out to

643

00:20:29,350 --> 00:20:26,559

see them we always encourage people to

644

00:20:30,070 --> 00:20:29,360

put away phones and just enjoy the view

645

00:20:31,830 --> 00:20:30,080

the experience

646

00:20:33,430 --> 00:20:31,840

johnny like the emotion of it resonates

647

00:20:34,950 --> 00:20:33,440

a lot with people who work here even

648

00:20:37,350 --> 00:20:34,960

um we see him a lot but like there's

649

00:20:40,230 --> 00:20:37,360

something emotional about it um and it's

650

00:20:41,029 --> 00:20:40,240

i i always tell people like it's it's so

651
00:20:42,630 --> 00:20:41,039
loud

652
00:20:44,789 --> 00:20:42,640
and every time before launch i tell

653
00:20:46,310 --> 00:20:44,799
people i'm like i'm like i'm remembering

654
00:20:47,990 --> 00:20:46,320
it wrong it's not that loud and it

655
00:20:49,909 --> 00:20:48,000
happens and you're like oh it's so loud

656
00:20:51,190 --> 00:20:49,919
so it's just a lot of fun to be close so

657
00:20:53,750 --> 00:20:51,200
if you're close by

658
00:20:54,630 --> 00:20:53,760
um enjoy the view um couple more

659
00:20:56,710 --> 00:20:54,640
questions

660
00:20:58,470 --> 00:20:56,720
uh johnny the question came in about

661
00:21:01,029 --> 00:20:58,480
your medical knowledge

662
00:21:03,029 --> 00:21:01,039
and how you ex do you expect that to be

663
00:21:04,230 --> 00:21:03,039

helpful as an astronaut and kind of

664

00:21:06,549 --> 00:21:04,240

where do you see that fitting in the

665

00:21:09,110 --> 00:21:06,559

picture

666

00:21:10,310 --> 00:21:09,120

yeah so it's a great question i think

667

00:21:13,510 --> 00:21:10,320

perspectives

668

00:21:14,950 --> 00:21:13,520

diversity i mean diversity is so

669

00:21:16,390 --> 00:21:14,960

powerful on what we do

670

00:21:17,990 --> 00:21:16,400

there's just so many obvious reasons for

671

00:21:19,110 --> 00:21:18,000

it but one of the biggest reasons why

672

00:21:22,149 --> 00:21:19,120

it's so helpful

673

00:21:23,510 --> 00:21:22,159

is perspectives and so certainly

674

00:21:25,350 --> 00:21:23,520

if we want to talk about the technical

675

00:21:27,270 --> 00:21:25,360

aspects of my time

676
00:21:28,789 --> 00:21:27,280
learning medicine as a combat medic and

677
00:21:32,390 --> 00:21:28,799
later as a physician

678
00:21:35,750 --> 00:21:32,400
certainly um is going to have a place

679
00:21:37,510 --> 00:21:35,760
for later space missions but i think

680
00:21:38,230 --> 00:21:37,520
what is can be even sometimes even more

681
00:21:41,510 --> 00:21:38,240
powerful

682
00:21:42,630 --> 00:21:41,520
is having that perspective of what a

683
00:21:45,669 --> 00:21:42,640
pilot thinks

684
00:21:47,110 --> 00:21:45,679
what a what an operator thinks what a

685
00:21:48,950 --> 00:21:47,120
doctor thinks an engineer

686
00:21:50,789 --> 00:21:48,960
all these different perspectives

687
00:21:52,149 --> 00:21:50,799
culminate and

688
00:21:54,149 --> 00:21:52,159

bring something else to the table

689

00:21:56,149 --> 00:21:54,159

everyone has a strength that they bring

690

00:21:57,510 --> 00:21:56,159

to the mission and so that's what i

691

00:21:57,990 --> 00:21:57,520

think is really powerful is just having

692

00:21:59,909 --> 00:21:58,000

a diverse

693

00:22:01,190 --> 00:21:59,919

crew with various strengths and

694

00:22:04,070 --> 00:22:01,200

backgrounds

695

00:22:04,390 --> 00:22:04,080

awesome very cool sunny uh question for

696

00:22:14,230 --> 00:22:04,400

you

697

00:22:16,149 --> 00:22:14,240

well um uh probably the very beginning

698

00:22:18,070 --> 00:22:16,159

you know like there's so many to talk

699

00:22:19,750 --> 00:22:18,080

about i don't know but i i'll just tell

700

00:22:20,630 --> 00:22:19,760

you the very beginning was just amazing

701
00:22:25,110 --> 00:22:20,640
the

702
00:22:27,029 --> 00:22:25,120
after launch engine stop you're in space

703
00:22:28,870 --> 00:22:27,039
and everything starts to float it's just

704
00:22:29,669 --> 00:22:28,880
comical you're like oh my god my arms

705
00:22:30,789 --> 00:22:29,679
are floating you know

706
00:22:32,149 --> 00:22:30,799
like here on earth you don't even

707
00:22:33,990 --> 00:22:32,159
realize that gravity holds your arms

708
00:22:35,510 --> 00:22:34,000
down and you don't think about it so if

709
00:22:36,630 --> 00:22:35,520
you don't think about it and you're some

710
00:22:37,830 --> 00:22:36,640
place where there is no gravity your

711
00:22:38,310 --> 00:22:37,840
arms are going to start to float right

712
00:22:40,149 --> 00:22:38,320
away

713
00:22:41,909 --> 00:22:40,159

and we're all just cracking up and you

714

00:22:42,789 --> 00:22:41,919

know like your gloves start to float you

715

00:22:44,390 --> 00:22:42,799

have to figure out where you're going to

716

00:22:45,270 --> 00:22:44,400

put them under your leg or your helmet

717

00:22:46,870 --> 00:22:45,280

you know i gotta

718

00:22:48,310 --> 00:22:46,880

velcro it to something and it's just

719

00:22:51,029 --> 00:22:48,320

just hilarious

720

00:22:52,549 --> 00:22:51,039

um and that same not too much longer

721

00:22:55,110 --> 00:22:52,559

after that that same

722

00:22:56,149 --> 00:22:55,120

hour uh my commander said sonny come up

723

00:22:57,669 --> 00:22:56,159

to the flight deck

724

00:22:59,190 --> 00:22:57,679

um let me give you your little astronaut

725

00:23:00,710 --> 00:22:59,200

wings and congratulations you know you

726

00:23:02,470 --> 00:23:00,720

made it to space

727

00:23:03,590 --> 00:23:02,480

and i was all excited about that i flew

728

00:23:04,390 --> 00:23:03,600

up the ladder and i'm like chuckling

729

00:23:05,909 --> 00:23:04,400

because i'm like

730

00:23:07,990 --> 00:23:05,919

i'm flying up a ladder i'm not even

731

00:23:09,430 --> 00:23:08,000

walking this is so funny and then i get

732

00:23:11,350 --> 00:23:09,440

up there and there's the window and

733

00:23:12,149 --> 00:23:11,360

there's the earth and i mean it was just

734

00:23:13,990 --> 00:23:12,159

like

735

00:23:15,590 --> 00:23:14,000

breathhtaking overwhelming when you see

736

00:23:17,750 --> 00:23:15,600

our planet that's

737

00:23:19,510 --> 00:23:17,760

round and you go oh those those teachers

738

00:23:22,230 --> 00:23:19,520

were right for one thing but

739

00:23:23,029 --> 00:23:22,240

second of all like that's it that's our

740

00:23:25,909 --> 00:23:23,039

little home

741

00:23:26,470 --> 00:23:25,919

that's it and it's that one right there

742

00:23:29,590 --> 00:23:26,480

and it's

743

00:23:32,789 --> 00:23:29,600

just beautiful it's alive it's moving

744

00:23:34,789 --> 00:23:32,799

you know clouds ocean green purple pink

745

00:23:36,950 --> 00:23:34,799

every color you can imagine it's just

746

00:23:38,549 --> 00:23:36,960

spectacular it takes your breath away

747

00:23:39,909 --> 00:23:38,559

and you'll do it again and again and

748

00:23:41,510 --> 00:23:39,919

again because every day is like a new

749

00:23:42,870 --> 00:23:41,520

day in space and you go to the cupola

750

00:23:44,870 --> 00:23:42,880

window on the space station

751

00:23:46,070 --> 00:23:44,880

yep that's it that's cool that's a cool

752

00:23:47,830 --> 00:23:46,080

planet down there

753

00:23:49,269 --> 00:23:47,840

did you ever wake up and be like oh wait

754

00:23:50,230 --> 00:23:49,279

it's not a dream like i'm really on

755

00:23:52,230 --> 00:23:50,240

space station

756

00:23:53,990 --> 00:23:52,240

you know one of the coolest things my

757

00:23:55,510 --> 00:23:54,000

father was a neuroscience

758

00:23:57,990 --> 00:23:55,520

scientist and he asked me the question

759

00:23:59,350 --> 00:23:58,000

about dreaming right and he said

760

00:24:01,350 --> 00:23:59,360

when you're up there do you dream you're

761

00:24:02,950 --> 00:24:01,360

back here or do you dream you're there

762

00:24:05,190 --> 00:24:02,960

and i was like that's a really profound

763

00:24:06,789 --> 00:24:05,200

question and i think dreaming part of it

764

00:24:09,430 --> 00:24:06,799

is experience right so

765

00:24:11,110 --> 00:24:09,440

i dreamed that i was there doing work up

766

00:24:12,470 --> 00:24:11,120

there or enjoying myself

767

00:24:14,870 --> 00:24:12,480

but every now and then i would dream i

768

00:24:17,029 --> 00:24:14,880

was home and after i got home sometimes

769

00:24:18,789 --> 00:24:17,039

i've dreamed about being there

770

00:24:20,070 --> 00:24:18,799

which is those are priceless moments

771

00:24:22,070 --> 00:24:20,080

because it's just

772

00:24:23,110 --> 00:24:22,080

magical awesome all right we're about

773

00:24:23,990 --> 00:24:23,120

out of time but i want to give you both

774

00:24:26,070 --> 00:24:24,000

a chance to kind of

775

00:24:27,590 --> 00:24:26,080

give last comments here uh just speaking

776

00:24:28,149 --> 00:24:27,600

to our audience um just think about

777

00:24:30,390 --> 00:24:28,159

audience

778

00:24:32,149 --> 00:24:30,400

of all ages uh what would you want to

779

00:24:33,909 --> 00:24:32,159

tell them about

780

00:24:35,190 --> 00:24:33,919

this mission about being an astronaut

781

00:24:37,190 --> 00:24:35,200

i'll just leave it to you guys

782

00:24:38,950 --> 00:24:37,200

um whatever you want to kind of say

783

00:24:41,029 --> 00:24:38,960

sunny you want to go first and john sure

784

00:24:42,230 --> 00:24:41,039

i'll take just a quick second because

785

00:24:45,350 --> 00:24:42,240

i'm talking too much

786

00:24:48,230 --> 00:24:45,360

but i'm so excited to be part of this

787

00:24:49,029 --> 00:24:48,240

i invite anybody everybody to be part of

788

00:24:51,510 --> 00:24:49,039

all of this

789

00:24:52,470 --> 00:24:51,520

i mean space travel space exploration is

790

00:24:54,630 --> 00:24:52,480

for everybody

791

00:24:56,390 --> 00:24:54,640

doesn't matter what your background is

792

00:24:57,990 --> 00:24:56,400

what you do you know humans living in

793

00:24:58,549 --> 00:24:58,000

space that means everything that we do

794

00:25:01,029 --> 00:24:58,559

on earth

795

00:25:01,909 --> 00:25:01,039

we have to do in space so human space

796

00:25:05,029 --> 00:25:01,919

exploration

797

00:25:07,590 --> 00:25:05,039

is super cool and very inclusive and

798

00:25:09,510 --> 00:25:07,600

we want new and innovative ideas from

799

00:25:10,710 --> 00:25:09,520

everybody out there so please join us

800

00:25:12,149 --> 00:25:10,720

tomorrow

801
00:25:14,390 --> 00:25:12,159
for an amazing launch and i hope it

802
00:25:16,230 --> 00:25:14,400
inspires you all

803
00:25:19,029 --> 00:25:16,240
i'm gonna i have to tag on to that sonny

804
00:25:20,870 --> 00:25:19,039
because it's such an important message

805
00:25:22,470 --> 00:25:20,880
you know everything we do here at nasa

806
00:25:24,549 --> 00:25:22,480
is for the betterment of

807
00:25:25,590 --> 00:25:24,559
you know not just this nation but

808
00:25:27,990 --> 00:25:25,600
humanity

809
00:25:28,950 --> 00:25:28,000
for our planet we only have one every

810
00:25:31,990 --> 00:25:28,960
everyone that we've

811
00:25:35,510 --> 00:25:32,000
loved and lived is here

812
00:25:38,310 --> 00:25:35,520
and this historic day we are

813
00:25:38,870 --> 00:25:38,320

beginning regular missions to the space

814

00:25:40,549 --> 00:25:38,880

station

815

00:25:42,149 --> 00:25:40,559

low earth orbit through commercial

816

00:25:45,669 --> 00:25:42,159

providers that is

817

00:25:46,230 --> 00:25:45,679

monumental for this nation but it's good

818

00:25:48,070 --> 00:25:46,240

for

819

00:25:49,430 --> 00:25:48,080

our international partners that we

820

00:25:51,510 --> 00:25:49,440

collaborate with

821

00:25:53,350 --> 00:25:51,520

and it wouldn't be possible without the

822

00:25:54,950 --> 00:25:53,360

thousands and thousands of people

823

00:25:57,350 --> 00:25:54,960

who aren't named who you don't always

824

00:26:01,029 --> 00:25:57,360

get to see who work behind the scenes

825

00:26:04,789 --> 00:26:01,039

but have an absolute hand in making this

826
00:26:05,750 --> 00:26:04,799
successful so chase your dreams and a

827
00:26:07,909 --> 00:26:05,760
big thank you

828
00:26:09,430 --> 00:26:07,919
for the public for everyone who supports

829
00:26:09,990 --> 00:26:09,440
us and especially the people and the

830
00:26:12,070 --> 00:26:10,000
engineers

831
00:26:13,350 --> 00:26:12,080
technicians who make this all possible

832
00:26:15,430 --> 00:26:13,360
yeah awesome thank you

833
00:26:16,470 --> 00:26:15,440
sunny johnny can't thank you enough it's

834
00:26:17,750 --> 00:26:16,480
been a pleasure

835
00:26:19,750 --> 00:26:17,760
i'm sure you'll have fun watching

836
00:26:21,430 --> 00:26:19,760
tomorrow uh excited to see you fly

837
00:26:22,470 --> 00:26:21,440
sometime soon sunny and johnny excited

838
00:26:24,070 --> 00:26:22,480

to see your next

839

00:26:25,669 --> 00:26:24,080

whenever you get seated we're excited to

840

00:26:27,029 --> 00:26:25,679

see you fly as well and we'll all be

841

00:26:28,630 --> 00:26:27,039

cheering you both on

842

00:26:30,149 --> 00:26:28,640

in the coming days and for now that's

843

00:26:32,470 --> 00:26:30,159

gonna do it for us madison we'll send it

844

00:26:34,470 --> 00:26:32,480

back into you

845

00:26:37,029 --> 00:26:34,480

thanks so much joshua and i just want to

846

00:26:39,269 --> 00:26:37,039

give a special thank you to our guests

847

00:26:41,430 --> 00:26:39,279

johnny and sunny for joining us for the

848

00:26:43,510 --> 00:26:41,440

virtual nasa social

849

00:26:44,549 --> 00:26:43,520

don't go anywhere we still have two more

850

00:26:47,029 --> 00:26:44,559

shows left

851
00:26:48,630 --> 00:26:47,039
in our virtual nasa social coverage you

852
00:26:51,669 --> 00:26:48,640
can join me again

853
00:26:51,990 --> 00:26:51,679
right here at 3 30 pm eastern and we

854
00:26:55,029 --> 00:26:52,000
will be

855
00:26:56,630 --> 00:26:55,039
speaking with the lead design engineer

856
00:26:59,350 --> 00:26:56,640
she is part of the commercial crew

857
00:27:02,149 --> 00:26:59,360
program and just a reminder

858
00:27:06,630 --> 00:27:02,159
tomorrow november 14th for live launch

859
00:27:09,590 --> 00:27:06,640
coverage you can tune in at www.nasa.gov

860
00:27:10,149 --> 00:27:09,600
live beginning at 3 30 eastern time for

861
00:27:13,110 --> 00:27:10,159
that 7

862
00:27:14,630 --> 00:27:13,120
49 p.m eastern time launch thanks

863
00:27:18,830 --> 00:27:14,640

everyone and i'll see y'all back here at