



1
00:00:04,630 --> 00:00:03,030
for a few moments here we'll take a

2
00:00:05,910 --> 00:00:04,640
break from showing what's going on

3
00:00:07,829 --> 00:00:05,920
aboard the space station right now to

4
00:00:09,350 --> 00:00:07,839
talk about the possibility of being an

5
00:00:11,669 --> 00:00:09,360
astronaut living and working on board

6
00:00:13,589 --> 00:00:11,679
the space station so to do that we have

7
00:00:15,430 --> 00:00:13,599
astronaut jack fisher who's one of the

8
00:00:17,590 --> 00:00:15,440
astronauts who was selected in the class

9
00:00:21,189 --> 00:00:17,600
of 2009 just recently

10
00:00:23,189 --> 00:00:21,199
and is a fully certified astronaut and

11
00:00:25,750 --> 00:00:23,199
is supporting missions from here in

12
00:00:27,109 --> 00:00:25,760
mission control and could be flying to

13
00:00:27,910 --> 00:00:27,119

the space station

14

00:00:29,589 --> 00:00:27,920

and

15

00:00:31,349 --> 00:00:29,599

we're going to talk about what it takes

16

00:00:33,270 --> 00:00:31,359

to get into the astronaut program

17

00:00:36,069 --> 00:00:33,280

because right now nasa is going through

18

00:00:38,709 --> 00:00:36,079

the process of selecting astronauts the

19

00:00:41,869 --> 00:00:38,719

application is open until next friday

20

00:00:45,990 --> 00:00:41,879

january 27th at

21

00:00:48,470 --> 00:00:46,000

www.nasa.gov slash fly nasa

22

00:00:50,310 --> 00:00:48,480

so uh jack thank you for joining us

23

00:00:52,069 --> 00:00:50,320

thank you for having me we'd like to

24

00:00:54,709 --> 00:00:52,079

talk about your background and see how

25

00:00:55,670 --> 00:00:54,719

you got to come here today you bet

26

00:00:58,630 --> 00:00:55,680

uh

27

00:01:00,229 --> 00:00:58,640

just a a quick summary i i grew up in

28

00:01:02,630 --> 00:01:00,239

colorado like you

29

00:01:04,950 --> 00:01:02,640

go broncos or maybe not

30

00:01:06,070 --> 00:01:04,960

not this year and uh

31

00:01:09,190 --> 00:01:06,080

from there i went to the air force

32

00:01:10,469 --> 00:01:09,200

academy and uh on to mit to get my

33

00:01:13,030 --> 00:01:10,479

graduate degree

34

00:01:16,070 --> 00:01:13,040

and then i went into

35

00:01:18,789 --> 00:01:16,080

flying in the air force and uh flew

36

00:01:21,190 --> 00:01:18,799

f-15e strike eagles at uh

37

00:01:22,789 --> 00:01:21,200

in north carolina and

38

00:01:25,109 --> 00:01:22,799

mountain home idaho

39

00:01:26,630 --> 00:01:25,119

and then went to edwards air force base

40

00:01:29,429 --> 00:01:26,640

test pilot school

41

00:01:31,190 --> 00:01:29,439

went through there and then

42

00:01:32,469 --> 00:01:31,200

i moved around all over the air force

43

00:01:35,190 --> 00:01:32,479

but tested

44

00:01:37,670 --> 00:01:35,200

f-15s and f-22s and

45

00:01:39,990 --> 00:01:37,680

eventually i was picked up when i was in

46

00:01:41,190 --> 00:01:40,000

dc for a year for a uh

47

00:01:42,870 --> 00:01:41,200

internship

48

00:01:44,149 --> 00:01:42,880

and came down here

49

00:01:45,590 --> 00:01:44,159

so it's been

50

00:01:47,830 --> 00:01:45,600

a wild ride but

51
00:01:50,389 --> 00:01:47,840
worked out pretty good in the end yeah

52
00:01:51,670 --> 00:01:50,399
yeah that you're here um so you're still

53
00:01:54,069 --> 00:01:51,680
in the air force you're absolutely

54
00:01:55,749 --> 00:01:54,079
lieutenant colonel correct and how does

55
00:01:57,830 --> 00:01:55,759
that work that you're active in the air

56
00:01:59,350 --> 00:01:57,840
force but also an astronaut well you

57
00:02:01,990 --> 00:01:59,360
know it's kind of like

58
00:02:04,069 --> 00:02:02,000
nasa wrenchia from the air force so

59
00:02:05,910 --> 00:02:04,079
we're still we're still required to do

60
00:02:08,869 --> 00:02:05,920
all of

61
00:02:11,029 --> 00:02:08,879
the requirements as far as schooling and

62
00:02:13,750 --> 00:02:11,039
professional military education while

63
00:02:17,190 --> 00:02:13,760

we're here but we're also

64
00:02:19,670 --> 00:02:17,200
you know active assets at nasa and we we

65
00:02:22,390 --> 00:02:19,680
do our jobs here at nasa so

66
00:02:24,150 --> 00:02:22,400
we're just basically being rented we're

67
00:02:26,470 --> 00:02:24,160
glad to have you absolutely i'm glad to

68
00:02:28,949 --> 00:02:26,480
be here i bet uh and how does the

69
00:02:31,750 --> 00:02:28,959
process to apply work for a military

70
00:02:33,670 --> 00:02:31,760
astronaut so it's it's similar to

71
00:02:36,390 --> 00:02:33,680
civilians but there's just a few more

72
00:02:38,869 --> 00:02:36,400
hoops that you have to go through yeah

73
00:02:40,949 --> 00:02:38,879
you start off everyone has to fill out

74
00:02:44,070 --> 00:02:40,959
their usa jobs application so make sure

75
00:02:46,790 --> 00:02:44,080
you do that before next week

76

00:02:48,869 --> 00:02:46,800

and then in the air force you fill out

77

00:02:52,790 --> 00:02:48,879

another application that will start at

78

00:02:54,869 --> 00:02:52,800

your base and then go up to the magicom

79

00:02:57,030 --> 00:02:54,879

major command they call them afpc which

80

00:02:58,790 --> 00:02:57,040

is our personnel command at least this

81

00:03:00,470 --> 00:02:58,800

is the air force way but all the

82

00:03:03,270 --> 00:03:00,480

services are the same

83

00:03:05,190 --> 00:03:03,280

and then from there they will screen you

84

00:03:07,830 --> 00:03:05,200

look at your medical and and your

85

00:03:11,030 --> 00:03:07,840

background and see if you're an eligible

86

00:03:13,830 --> 00:03:11,040

candidate and then forward those names

87

00:03:15,589 --> 00:03:13,840

to nasa and for the most part when they

88

00:03:16,790 --> 00:03:15,599

forward those names that's kind of like

89

00:03:18,949 --> 00:03:16,800

given a key

90

00:03:21,830 --> 00:03:18,959

to nasa to say all right you can unlock

91

00:03:23,430 --> 00:03:21,840

their usajobs application now so at that

92

00:03:25,509 --> 00:03:23,440

point now they can look at your

93

00:03:28,470 --> 00:03:25,519

application and consider you in the

94

00:03:31,830 --> 00:03:28,480

larger pool of several thousand people

95

00:03:34,470 --> 00:03:31,840

to narrow you down to who they interview

96

00:03:37,190 --> 00:03:34,480

and who they eventually pick okay so

97

00:03:39,190 --> 00:03:37,200

that you still apply at the government

98

00:03:41,430 --> 00:03:39,200

website which you can reach by going to

99

00:03:42,949 --> 00:03:41,440

the www.nasa.gov

100

00:03:44,229 --> 00:03:42,959

flynasa

101
00:03:45,910 --> 00:03:44,239
and then the process through the

102
00:03:47,589 --> 00:03:45,920
military takes a little bit longer but

103
00:03:49,270 --> 00:03:47,599
then eventually you sync back up with

104
00:03:51,110 --> 00:03:49,280
the civilian group that's going through

105
00:03:53,429 --> 00:03:51,120
you start a little earlier but you sync

106
00:03:55,750 --> 00:03:53,439
up in the end okay so you came down for

107
00:03:58,470 --> 00:03:55,760
the interviews absolutely so

108
00:04:01,429 --> 00:03:58,480
after after they

109
00:04:04,309 --> 00:04:01,439
they narrow it down to about 400 folks

110
00:04:06,470 --> 00:04:04,319
where they'll send off requests to get

111
00:04:08,149 --> 00:04:06,480
your references to actually fill out a

112
00:04:10,869 --> 00:04:08,159
reference and send it in

113
00:04:13,910 --> 00:04:10,879

and from there they'll narrow it down

114

00:04:15,990 --> 00:04:13,920

again to around 100 folks and those

115

00:04:18,710 --> 00:04:16,000

people will come down in in several

116

00:04:19,909 --> 00:04:18,720

groups of around 20

117

00:04:21,749 --> 00:04:19,919

and you'll go through your first round

118

00:04:23,990 --> 00:04:21,759

of interviews

119

00:04:27,430 --> 00:04:24,000

do some tests it's about three or four

120

00:04:30,390 --> 00:04:27,440

days that that round and and based on

121

00:04:33,670 --> 00:04:30,400

how you interact with everyone and

122

00:04:36,469 --> 00:04:33,680

they do a few teamwork exercises and

123

00:04:39,350 --> 00:04:36,479

all sorts of tests but mainly a big

124

00:04:42,790 --> 00:04:39,360

interview where you're sitting at this

125

00:04:44,950 --> 00:04:42,800

this t-shaped table and you're you're in

126

00:04:47,030 --> 00:04:44,960

the corner of the table so you have

127

00:04:49,110 --> 00:04:47,040

people sitting back behind you and off

128

00:04:50,950 --> 00:04:49,120

to the side and all over and

129

00:04:52,950 --> 00:04:50,960

it's i think they just want to make you

130

00:04:54,870 --> 00:04:52,960

uncomfortable and see how you'll react

131

00:04:56,469 --> 00:04:54,880

you kind of have to back up and look at

132

00:04:57,909 --> 00:04:56,479

these folks and back up and look at

133

00:05:00,390 --> 00:04:57,919

those folks it's

134

00:05:01,670 --> 00:05:00,400

it's a an interesting experience to say

135

00:05:03,990 --> 00:05:01,680

the least

136

00:05:06,870 --> 00:05:04,000

and then based on that they'll scale you

137

00:05:09,510 --> 00:05:06,880

down again to around 40 people

138

00:05:12,550 --> 00:05:09,520

and then bring you down to nasa again to

139

00:05:14,629 --> 00:05:12,560

go through some medical tests and uh

140

00:05:15,909 --> 00:05:14,639

much much more extensive testing as well

141

00:05:18,870 --> 00:05:15,919

as interviews

142

00:05:22,230 --> 00:05:18,880

both psychological as well as

143

00:05:25,110 --> 00:05:22,240

the uh t table of terror

144

00:05:27,110 --> 00:05:25,120

um and so the the process seems pretty

145

00:05:29,670 --> 00:05:27,120

competitive we've already had more than

146

00:05:34,150 --> 00:05:29,680

2 800 applications for this group and

147

00:05:35,350 --> 00:05:34,160

typically get about 2500 to 3 000 so but

148

00:05:37,510 --> 00:05:35,360

people do make it do you have

149

00:05:39,510 --> 00:05:37,520

suggestions for for people that want to

150

00:05:41,990 --> 00:05:39,520

apply out there well

151
00:05:44,790 --> 00:05:42,000
you know a lot of how they select i have

152
00:05:46,790 --> 00:05:44,800
no idea and i i just feel lucky that i

153
00:05:48,870 --> 00:05:46,800
was able to make it

154
00:05:50,950 --> 00:05:48,880
and i think luck has a lot to do with it

155
00:05:53,189 --> 00:05:50,960
your timing and everything else so the

156
00:05:54,390 --> 00:05:53,199
most important thing that you can do is

157
00:05:57,430 --> 00:05:54,400
to apply

158
00:06:00,070 --> 00:05:57,440
i had a an ops officer he's kind of the

159
00:06:02,550 --> 00:06:00,080
guy who runs the squadron in a uh the

160
00:06:05,350 --> 00:06:02,560
flying operations in a in a fighter

161
00:06:07,510 --> 00:06:05,360
squadron and he once told me if you want

162
00:06:09,350 --> 00:06:07,520
to fly you got to stand by the ops desk

163
00:06:11,350 --> 00:06:09,360

and be ready to fly

164

00:06:12,950 --> 00:06:11,360

if if you're not there and you're not

165

00:06:14,870 --> 00:06:12,960

ready if you don't apply if you don't

166

00:06:16,150 --> 00:06:14,880

take that step you'll never get picked

167

00:06:18,150 --> 00:06:16,160

so

168

00:06:20,150 --> 00:06:18,160

the best the best advice you can have

169

00:06:23,110 --> 00:06:20,160

for anyone is to put your name in the

170

00:06:25,350 --> 00:06:23,120

hat do your your best effort to to put

171

00:06:26,629 --> 00:06:25,360

what you are and how you

172

00:06:29,029 --> 00:06:26,639

how you

173

00:06:31,270 --> 00:06:29,039

what you are as a person onto paper

174

00:06:33,990 --> 00:06:31,280

which is a good self-examination

175

00:06:34,790 --> 00:06:34,000

exercise regardless what happens and

176

00:06:37,590 --> 00:06:34,800

then

177

00:06:38,309 --> 00:06:37,600

from there we'll see what happens

178

00:06:39,510 --> 00:06:38,319

so

179

00:06:41,990 --> 00:06:39,520

now that you've gone through that whole

180

00:06:43,430 --> 00:06:42,000

process and how fun is it to be here

181

00:06:45,909 --> 00:06:43,440

let's tell everybody about what it's

182

00:06:47,510 --> 00:06:45,919

like to be you know it's fantastic we've

183

00:06:49,670 --> 00:06:47,520

we've done a lot of things it was it was

184

00:06:53,110 --> 00:06:49,680

an adjustment for me uh going from an

185

00:06:54,710 --> 00:06:53,120

air force culture to to nasa but uh

186

00:06:56,550 --> 00:06:54,720

in the end

187

00:06:58,309 --> 00:06:56,560

i've gotten a lot of experiences that

188

00:07:00,469 --> 00:06:58,319

you could never get anywhere else we've

189

00:07:03,110 --> 00:07:00,479

gone all over the world

190

00:07:05,029 --> 00:07:03,120

i spent six weeks in russia i've spent

191

00:07:07,749 --> 00:07:05,039

several weeks in japan

192

00:07:09,589 --> 00:07:07,759

we've gone to germany

193

00:07:10,950 --> 00:07:09,599

all over the world doing all sorts of

194

00:07:13,749 --> 00:07:10,960

things

195

00:07:15,589 --> 00:07:13,759

eva is spacewalk training

196

00:07:17,830 --> 00:07:15,599

where we do at the neutral buoyancy

197

00:07:19,350 --> 00:07:17,840

laboratory and for a guy who grew up on

198

00:07:22,390 --> 00:07:19,360

a construction site

199

00:07:24,629 --> 00:07:22,400

my family was into construction being

200

00:07:27,189 --> 00:07:24,639

able to build stuff underwater is just a

201
00:07:29,990 --> 00:07:27,199
dream come true so absolutely love it

202
00:07:31,830 --> 00:07:30,000
over there and then the chance we're

203
00:07:34,230 --> 00:07:31,840
sitting in the mission control room

204
00:07:36,710 --> 00:07:34,240
another favorite part of my job is is

205
00:07:39,830 --> 00:07:36,720
being a capcom or capsule communicator

206
00:07:42,790 --> 00:07:39,840
it's a holdover name from from the

207
00:07:45,110 --> 00:07:42,800
the early space program days but

208
00:07:47,350 --> 00:07:45,120
basically we get to sit in this group

209
00:07:49,350 --> 00:07:47,360
this room of just

210
00:07:50,869 --> 00:07:49,360
amazing people and and be able to

211
00:07:53,029 --> 00:07:50,879
communicate with the crew on a daily

212
00:07:55,430 --> 00:07:53,039
basis in fact that's why i'm wearing a

213
00:07:56,150 --> 00:07:55,440

tie right now is because i i just got

214

00:07:59,350 --> 00:07:56,160
off

215

00:08:01,110 --> 00:07:59,360
a shift this morning and uh was able to

216

00:08:03,749 --> 00:08:01,120
to work with the crew and

217

00:08:07,909 --> 00:08:03,759
you know this uh a good example of of

218

00:08:10,070 --> 00:08:07,919
why it's so great is is yesterday i was

219

00:08:12,869 --> 00:08:10,080
sitting capcom i guess last night the

220

00:08:14,469 --> 00:08:12,879
night before whatever it's it's late in

221

00:08:16,469 --> 00:08:14,479
my world right now

222

00:08:19,029 --> 00:08:16,479
and uh

223

00:08:20,950 --> 00:08:19,039
there was a problem with the exercise

224

00:08:23,110 --> 00:08:20,960
device on on the space station it's

225

00:08:25,270 --> 00:08:23,120
called the advanced resistive

226

00:08:27,749 --> 00:08:25,280

exercise exercise device there you go

227

00:08:29,830 --> 00:08:27,759

a-red anyway a-red wasn't working and

228

00:08:32,149 --> 00:08:29,840

the crew gets very upset because they

229

00:08:33,430 --> 00:08:32,159

really love a-red it it it's a it's a

230

00:08:35,350 --> 00:08:33,440

great uh

231

00:08:37,029 --> 00:08:35,360

escape for them to to be able to work

232

00:08:39,589 --> 00:08:37,039

out and it was broken

233

00:08:41,430 --> 00:08:39,599

and they tried to fix it once

234

00:08:42,389 --> 00:08:41,440

and then dan burbank our commander on

235

00:08:44,550 --> 00:08:42,399

space

236

00:08:45,910 --> 00:08:44,560

on the station right now

237

00:08:48,550 --> 00:08:45,920

you know called down and said this is

238

00:08:50,470 --> 00:08:48,560

why it's not working this part is broken

239

00:08:52,150 --> 00:08:50,480

it was almost like apollo 13 you know

240

00:08:54,389 --> 00:08:52,160

where they just throw a bunch of stuff

241

00:08:56,470 --> 00:08:54,399

on the table and say make this you know

242

00:08:57,750 --> 00:08:56,480

square peg fit in this round hole and

243

00:09:00,150 --> 00:08:57,760

and

244

00:09:02,550 --> 00:09:00,160

uh you know the group through the night

245

00:09:04,070 --> 00:09:02,560

worked and and i came back in at you

246

00:09:06,630 --> 00:09:04,080

know about three o'clock this morning

247

00:09:08,389 --> 00:09:06,640

and there's already a procedure all made

248

00:09:10,470 --> 00:09:08,399

up with pictures of exactly how we're

249

00:09:11,430 --> 00:09:10,480

going to fix this thing and we send it

250

00:09:13,509 --> 00:09:11,440

up and

251
00:09:16,150 --> 00:09:13,519
you know about an hour later dan

252
00:09:17,509 --> 00:09:16,160
goes through it and says hey there's a

253
00:09:18,949 --> 00:09:17,519
few pieces that aren't going to work

254
00:09:20,949 --> 00:09:18,959
there's some things that are missing and

255
00:09:22,710 --> 00:09:20,959
he grabs a piece of string and he

256
00:09:24,550 --> 00:09:22,720
grabbed some velcro and

257
00:09:27,509 --> 00:09:24,560
you know together the whole team was

258
00:09:29,350 --> 00:09:27,519
able to fix this thing and and it's uh

259
00:09:32,310 --> 00:09:29,360
every day is like that in this job so

260
00:09:34,550 --> 00:09:32,320
it's a very exciting part of what i do

261
00:09:36,790 --> 00:09:34,560
just to be able to interact and see

262
00:09:40,790 --> 00:09:36,800
you know i consider this front room of

263
00:09:42,949 --> 00:09:40,800

of the mcc to be the major leagues um

264

00:09:45,030 --> 00:09:42,959

everybody in here is top of their game

265

00:09:46,870 --> 00:09:45,040

they're just amazing people so to be

266

00:09:49,269 --> 00:09:46,880

able to work with them and and work with

267

00:09:50,470 --> 00:09:49,279

the crew on a daily basis is a really

268

00:09:52,150 --> 00:09:50,480

great part of the job

269

00:09:53,190 --> 00:09:52,160

and that will come in handy i guess if

270

00:09:54,630 --> 00:09:53,200

you ever

271

00:09:55,990 --> 00:09:54,640

are joining a crew onboard the space

272

00:09:57,590 --> 00:09:56,000

station you'll have the experience of

273

00:10:00,310 --> 00:09:57,600

knowing what the team does down here

274

00:10:02,150 --> 00:10:00,320

absolutely um it's

275

00:10:04,310 --> 00:10:02,160

you know i have a really fun time just

276

00:10:06,389 --> 00:10:04,320

watching the crew on orbit one of the

277

00:10:08,310 --> 00:10:06,399

things i love watching and i've only

278

00:10:09,509 --> 00:10:08,320

been doing it a few months but i've at

279

00:10:11,430 --> 00:10:09,519

least seen

280

00:10:13,750 --> 00:10:11,440

enough to uh

281

00:10:16,470 --> 00:10:13,760

i like watching how they move around

282

00:10:17,829 --> 00:10:16,480

and when they start up there and they're

283

00:10:19,910 --> 00:10:17,839

a brand new crew they're kind of

284

00:10:22,230 --> 00:10:19,920

tentative and they're kind of moving

285

00:10:23,910 --> 00:10:22,240

slowly and and then

286

00:10:26,069 --> 00:10:23,920

and then by the end they're just

287

00:10:28,230 --> 00:10:26,079

graceful like swans you know floating

288

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

through and pushing off and going half

289

00:10:32,630 --> 00:10:29,519

the distance

290

00:10:35,509 --> 00:10:32,640

uh don pettit who's up there right now

291

00:10:37,910 --> 00:10:35,519

i i love watching him because it seems

292

00:10:41,350 --> 00:10:37,920

every time i see him moving through the

293

00:10:43,829 --> 00:10:41,360

space station he goes in a different way

294

00:10:47,430 --> 00:10:43,839

last night he was like walking almost

295

00:10:48,550 --> 00:10:47,440

like he was on the moon and and today

296

00:10:51,430 --> 00:10:48,560

he was

297

00:10:53,590 --> 00:10:51,440

pushing and then would put himself into

298

00:10:56,550 --> 00:10:53,600

a little cannonball and go through about

299

00:10:57,910 --> 00:10:56,560

two modules and reach out his arm and go

300

00:10:59,670 --> 00:10:57,920

it's just

301

00:11:02,710 --> 00:10:59,680

it's silly things but it's it's

302

00:11:06,310 --> 00:11:02,720

fascinating to to see and to watch

303

00:11:08,230 --> 00:11:06,320

and so i i hope i'm picking up enough

304

00:11:09,269 --> 00:11:08,240

that that i'll be able to apply that

305

00:11:10,550 --> 00:11:09,279

someday

306

00:11:12,230 --> 00:11:10,560

on the station

307

00:11:13,509 --> 00:11:12,240

that's good experience here and then you

308

00:11:14,790 --> 00:11:13,519

mentioned you're training all over the

309

00:11:16,310 --> 00:11:14,800

world that's

310

00:11:18,790 --> 00:11:16,320

going to all of our different partners

311

00:11:21,430 --> 00:11:18,800

for the space station program and

312

00:11:23,509 --> 00:11:21,440

so what else do you do now that you're

313

00:11:26,470 --> 00:11:23,519

sort of an operational astronaut for the

314

00:11:28,550 --> 00:11:26,480

office so i kind of work we have

315

00:11:30,630 --> 00:11:28,560

branches in the astronaut office and i

316

00:11:32,310 --> 00:11:30,640

kind of have little pieces and and all

317

00:11:35,350 --> 00:11:32,320

sorts of branches

318

00:11:37,750 --> 00:11:35,360

i work in the soyuz branch and

319

00:11:39,590 --> 00:11:37,760

what we try to do is compile all of the

320

00:11:42,150 --> 00:11:39,600

the study guides and the information

321

00:11:43,509 --> 00:11:42,160

about soyuz so that as people go to star

322

00:11:46,230 --> 00:11:43,519

city to

323

00:11:47,269 --> 00:11:46,240

go through their training for the soyuz

324

00:11:49,269 --> 00:11:47,279

they can

325

00:11:52,550 --> 00:11:49,279

you know have a leg up and be able to

326

00:11:54,870 --> 00:11:52,560

prepare themselves and have a resource

327

00:11:58,870 --> 00:11:54,880

i'm also working here in the capcom

328

00:12:01,269 --> 00:11:58,880

branch i am a crew support astronaut for

329

00:12:03,990 --> 00:12:01,279

an upcoming actually the next uh two

330

00:12:06,629 --> 00:12:04,000

increments increment 31 and 32

331

00:12:08,629 --> 00:12:06,639

sunny williams joe acaba and

332

00:12:10,230 --> 00:12:08,639

akihido

333

00:12:12,470 --> 00:12:10,240

and

334

00:12:13,990 --> 00:12:12,480

it it's it's great to be able to go

335

00:12:16,550 --> 00:12:14,000

through the flow and and watch

336

00:12:19,430 --> 00:12:16,560

everything that they're doing and and

337

00:12:22,629 --> 00:12:19,440

i've also been assigned to a

338

00:12:25,030 --> 00:12:22,639

an eva the spacewalk um

339

00:12:26,150 --> 00:12:25,040

that aki and and sunny are supposed to

340

00:12:28,389 --> 00:12:26,160

be doing

341

00:12:30,550 --> 00:12:28,399

and being able to go to

342

00:12:33,030 --> 00:12:30,560

the mbl the neutral buoyancy laboratory

343

00:12:35,269 --> 00:12:33,040

our big old pool all the time and and

344

00:12:36,949 --> 00:12:35,279

watch them and and just go through the

345

00:12:39,430 --> 00:12:36,959

whole process of

346

00:12:40,310 --> 00:12:39,440

this elaborate dance that is a spacewalk

347

00:12:42,470 --> 00:12:40,320

has been

348

00:12:44,150 --> 00:12:42,480

a lot of fun so

349

00:12:46,150 --> 00:12:44,160

i'm just kind of spread all over the

350

00:12:48,629 --> 00:12:46,160

place that's good that's good to get the

351
00:12:50,389 --> 00:12:48,639
experience and then hopefully um you'll

352
00:12:52,310 --> 00:12:50,399
support the space station as a crew

353
00:12:54,710 --> 00:12:52,320
member i hope so and then there's also

354
00:12:56,470 --> 00:12:54,720
the possibility of your class or the

355
00:12:59,269 --> 00:12:56,480
next class that's being hired of going

356
00:13:00,790 --> 00:12:59,279
on our new vehicles what what hopes do

357
00:13:02,069 --> 00:13:00,800
you have for that and

358
00:13:04,629 --> 00:13:02,079
you know that's probably one of the most

359
00:13:06,790 --> 00:13:04,639
exciting things right now is is

360
00:13:07,590 --> 00:13:06,800
we have this new sls

361
00:13:10,470 --> 00:13:07,600
um

362
00:13:12,230 --> 00:13:10,480
heavy launch system that we're pursuing

363
00:13:15,750 --> 00:13:12,240

as well as the multi-purpose crew

364

00:13:18,069 --> 00:13:15,760
vehicle or ryan this capsule that

365

00:13:18,949 --> 00:13:18,079
you know in the past the shuttle

366

00:13:20,949 --> 00:13:18,959
is

367

00:13:23,750 --> 00:13:20,959
was built for low earth orbit whereas

368

00:13:26,550 --> 00:13:23,760
we're building this vehicle to come back

369

00:13:28,949 --> 00:13:26,560
at higher re-entry angles uh from places

370

00:13:30,870 --> 00:13:28,959
like the moon and asteroids and mars and

371

00:13:33,750 --> 00:13:30,880
and beyond so

372

00:13:34,949 --> 00:13:33,760
it's a very exciting time to

373

00:13:37,990 --> 00:13:34,959
be here

374

00:13:40,790 --> 00:13:38,000
and even imagine the possibility of of

375

00:13:42,389 --> 00:13:40,800
taking that next evolutionary step for

376

00:13:43,350 --> 00:13:42,399

mankind so

377

00:13:51,350 --> 00:13:43,360

i

378

00:13:53,110 --> 00:13:51,360

that

379

00:13:54,870 --> 00:13:53,120

and you mentioned how you help with it i

380

00:13:56,389 --> 00:13:54,880

mean even while the space station is

381

00:13:58,710 --> 00:13:56,399

going and we're supporting that we're

382

00:14:00,150 --> 00:13:58,720

also and your office is involved in

383

00:14:01,829 --> 00:14:00,160

helping design the future vehicles

384

00:14:04,710 --> 00:14:01,839

absolutely we have an entire branch

385

00:14:06,550 --> 00:14:04,720

called the exploration branch which is

386

00:14:07,670 --> 00:14:06,560

right now working not only with our

387

00:14:09,110 --> 00:14:07,680

commercial

388

00:14:09,829 --> 00:14:09,120

partners

389

00:14:15,269 --> 00:14:09,839

to

390

00:14:17,590 --> 00:14:15,279

also designing and

391

00:14:20,389 --> 00:14:17,600

helping to build that that space launch

392

00:14:22,710 --> 00:14:20,399

system and the heavy lift and orion and

393

00:14:24,550 --> 00:14:22,720

just really push us to the next level

394

00:14:28,310 --> 00:14:24,560

they even have a

395

00:14:31,509 --> 00:14:28,320

proposal right now of making a

396

00:14:32,550 --> 00:14:31,519

orbiting facility and one of the earth

397

00:14:34,790 --> 00:14:32,560

moon

398

00:14:38,230 --> 00:14:34,800

it's a lagrange point it's kind of a

399

00:14:40,629 --> 00:14:38,240

gravity point that between two body

400

00:14:43,030 --> 00:14:40,639

systems that you don't really have to

401
00:14:45,509 --> 00:14:43,040
expend any energy to stay there it's

402
00:14:47,030 --> 00:14:45,519
kind of like no gravity so you can put a

403
00:14:48,150 --> 00:14:47,040
big old station up there and you don't

404
00:14:49,990 --> 00:14:48,160
have to

405
00:14:51,990 --> 00:14:50,000
station keep and

406
00:14:53,910 --> 00:14:52,000
if we had that big laboratory kind of

407
00:14:56,389 --> 00:14:53,920
like the space station only on the other

408
00:14:57,430 --> 00:14:56,399
side of the moon we'd be able to launch

409
00:14:59,269 --> 00:14:57,440
from there

410
00:15:00,710 --> 00:14:59,279
down to the moon for excursions to

411
00:15:02,470 --> 00:15:00,720
control

412
00:15:05,030 --> 00:15:02,480
all sorts of vehicles on the moon it

413
00:15:07,910 --> 00:15:05,040

would be a great next step

414

00:15:10,310 --> 00:15:07,920

for us to perfect our systems and our

415

00:15:12,949 --> 00:15:10,320

processes before we

416

00:15:15,430 --> 00:15:12,959

go further and go to places like mars

417

00:15:17,509 --> 00:15:15,440

and beyond mm-hmm

418

00:15:19,269 --> 00:15:17,519

well um thank you for coming and

419

00:15:21,750 --> 00:15:19,279

speaking with us and if you have any

420

00:15:23,910 --> 00:15:21,760

more final advice for people that need

421

00:15:26,629 --> 00:15:23,920

to apply before next friday

422

00:15:27,910 --> 00:15:26,639

well just apply and and

423

00:15:29,910 --> 00:15:27,920

would say that

424

00:15:32,310 --> 00:15:29,920

you know i've been going around trying

425

00:15:33,269 --> 00:15:32,320

to encourage folks to apply and and one

426

00:15:36,310 --> 00:15:33,279

thing

427

00:15:38,310 --> 00:15:36,320

that i'd i wouldn't do is you shouldn't

428

00:15:40,790 --> 00:15:38,320

live your life

429

00:15:43,509 --> 00:15:40,800

gunning for one thing at nasa it's too

430

00:15:44,790 --> 00:15:43,519

much based on luck i'm a good example of

431

00:15:47,110 --> 00:15:44,800

that

432

00:15:49,189 --> 00:15:47,120

you should uh follow your heart and if

433

00:15:52,470 --> 00:15:49,199

you're passionate about what you do and

434

00:15:54,550 --> 00:15:52,480

and you you truly bring who you are to

435

00:15:55,829 --> 00:15:54,560

everything that you put your name on

436

00:15:57,990 --> 00:15:55,839

then you'll

437

00:15:59,350 --> 00:15:58,000

you'll stand out and eventually good

438

00:16:01,670 --> 00:15:59,360

things will happen

439

00:16:03,590 --> 00:16:01,680

okay well thank you and again the

440

00:16:06,629 --> 00:16:03,600

application and more background about

441

00:16:08,949 --> 00:16:06,639

the process and the qualifications and

442

00:16:11,189 --> 00:16:08,959

blogs from other astronauts in in jack

443

00:16:14,069 --> 00:16:11,199

fisher's position are all online at