



1
00:00:20,570 --> 00:00:16,210
in 1998 i was at KSC for a project and

2
00:00:24,290 --> 00:00:20,580
they were going to launch atlantis two

3
00:00:28,550 --> 00:00:24,300
days after we were there and I really

4
00:00:31,880 --> 00:00:28,560
wasn't told what to expect and so I we

5
00:00:34,670 --> 00:00:31,890
we went out of the the building five

6
00:00:36,410 --> 00:00:34,680
minutes before launch I had my movie

7
00:00:41,510 --> 00:00:36,420
camera and I stood right by the control

8
00:00:43,729 --> 00:00:41,520
tower as I was filming and I saw the

9
00:00:45,220 --> 00:00:43,739
lock the Rockets light up and saw it

10
00:00:48,440 --> 00:00:45,230
lifts I really didn't hear anything

11
00:00:51,560 --> 00:00:48,450
about 10 seconds later as I was filming

12
00:00:54,229 --> 00:00:51,570
I started to hear the faint roar and

13
00:00:57,590 --> 00:00:54,239

then it got louder and louder and then

14

00:01:00,770 --> 00:00:57,600

the vibration went through the ground

15

00:01:03,920 --> 00:01:00,780

right through me like almost like an

16

00:01:05,570 --> 00:01:03,930

electrical shock and I was so blown away

17

00:01:09,020 --> 00:01:05,580

I probably looked like a cartoon

18

00:01:11,510 --> 00:01:09,030

character and I let go of the camera and

19

00:01:14,810 --> 00:01:11,520

I've you know and I was kind of leaning

20

00:01:17,539 --> 00:01:14,820

back and watching it but filming it at

21

00:01:20,840 --> 00:01:17,549

the same time and I filmed I kept it in

22

00:01:23,990 --> 00:01:20,850

the cameras view all the way to the

23

00:01:29,990 --> 00:01:27,110

I was the launch armory and I was lucky

24

00:01:32,300 --> 00:01:30,000

enough to go see it for a second time

25

00:01:35,210 --> 00:01:32,310

and the second time I watched it and I

26

00:01:38,060 --> 00:01:35,220

filmed everybody else so I could kind of

27

00:01:40,130 --> 00:01:38,070

imagine how I look like the large crowd

28

00:01:42,590 --> 00:01:40,140

everybody looked the same like they were

29

00:01:45,350 --> 00:01:42,600

all kind of when the sound and the roar

30

00:02:08,020 --> 00:01:45,360

and you know and all that got there they

31

00:02:17,870 --> 00:02:11,560

my special moment on the program I think

32

00:02:22,940 --> 00:02:17,880

when it all hit what we do is my first

33

00:02:26,000 --> 00:02:22,950

trip to KSC and looking at the Vehicle

34

00:02:28,550 --> 00:02:26,010

Assembly Building it just made me

35

00:02:31,970 --> 00:02:28,560

realize how many people it takes to

36

00:02:35,600 --> 00:02:31,980

build the space shuttle and all the

37

00:02:39,020 --> 00:02:35,610

support and teams across the country or

38

00:02:41,560 --> 00:02:39,030

that go into making the space shuttle

39

00:02:47,510 --> 00:02:41,570

fly and and supporting the astronauts

40

00:02:49,040 --> 00:02:47,520

it's it's amazing that humans have the

41

00:02:52,760 --> 00:02:49,050

capability to make something like that

42

00:02:56,420 --> 00:02:52,770

happen and until you go down there and

43

00:03:00,790 --> 00:02:56,430

see it I don't think it I know it didn't

44

00:03:22,440 --> 00:03:00,800

with me hit home and it's just amazing

45

00:03:27,610 --> 00:03:25,870

so back in the on the people intestine

46

00:03:29,800 --> 00:03:27,620

back when I used to work space shuttle

47

00:03:32,740 --> 00:03:29,810

main engine used to work on the turbo

48

00:03:33,970 --> 00:03:32,750

machinery combustion devices arena if I

49

00:03:35,830 --> 00:03:33,980

wasn't able to kind of go to all the

50

00:03:38,860 --> 00:03:35,840

facilities the different test ends and

51
00:03:40,960 --> 00:03:38,870
can remember on the b-1 stand we had an

52
00:03:44,080 --> 00:03:40,970
alligator he was his good-sized

53
00:03:45,699 --> 00:03:44,090
alligator 18 20 foot and they had a

54
00:03:48,130 --> 00:03:45,709
contractor that used to work on the

55
00:03:49,780 --> 00:03:48,140
facility with us and she would when it

56
00:03:52,420 --> 00:03:49,790
was break time she'd go down and buy

57
00:03:55,390 --> 00:03:52,430
some moon pies and she'd go out and

58
00:03:57,160 --> 00:03:55,400
she'd walk out the door she yelled Rudy

59
00:03:59,199 --> 00:03:57,170
because she'd need the alligator Rudy

60
00:04:01,360 --> 00:03:59,209
and you could see Rudy hit the water

61
00:04:03,460 --> 00:04:01,370
from the bank across the way and he swim

62
00:04:06,040 --> 00:04:03,470
all the way over and she tossed him a

63
00:04:08,350 --> 00:04:06,050

big triple decker moon pie he was quite

64

00:04:10,750 --> 00:04:08,360

happy with that so although we're not

65

00:04:13,900 --> 00:04:10,760

supposed to feed the alligators they've

66

00:04:33,070 --> 00:04:13,910

been seen eating some something so it

67

00:04:39,920 --> 00:04:37,340

we were asked to go to Florida to get in

68

00:04:42,380 --> 00:04:39,930

the shuttle to go behind the engine to

69

00:04:46,220 --> 00:04:42,390

crawl up in there with a borescope to n

70

00:04:47,990 --> 00:04:46,230

SPECT i believe it was impellers and the

71

00:04:50,570 --> 00:04:48,000

problem that was on it was a thing

72

00:04:52,190 --> 00:04:50,580

called idea intergranular attack meaning

73

00:04:54,860 --> 00:04:52,200

that when the thing was cleaned or

74

00:04:57,920 --> 00:04:54,870

manufacture somewhere somehow there was

75

00:05:00,140 --> 00:04:57,930

like a a surface anomaly that was

76
00:05:03,500 --> 00:05:00,150
happening on our titanium hardware so

77
00:05:06,140 --> 00:05:03,510
that if there was I da the company would

78
00:05:07,670 --> 00:05:06,150
have to remove the engine so it was easy

79
00:05:10,070 --> 00:05:07,680
enough to take two engineers and fly

80
00:05:12,290 --> 00:05:10,080
them out today to the to the hardware to

81
00:05:15,410 --> 00:05:12,300
look at the the pump and we found there

82
00:05:17,330 --> 00:05:15,420
was no I GA and that little flight you

83
00:05:18,770 --> 00:05:17,340
know made us like a little we had our

84
00:05:20,570 --> 00:05:18,780
little hero moment I lost seeing him

85
00:05:22,400 --> 00:05:20,580
over you know that save the day but I

86
00:05:24,560 --> 00:05:22,410
was happy as a young lad to come to this

87
00:05:26,750 --> 00:05:24,570
firm and be given at awesome opportunity

88
00:05:28,310 --> 00:05:26,760

to be the one like Derek Fisher on the

89

00:05:30,620 --> 00:05:28,320

Lakers you know to shoot that shot saved

90

00:05:32,870 --> 00:05:30,630

you know save the day we were able to

91

00:05:35,960 --> 00:05:32,880

say save the flight by flying out there

92

00:05:37,340 --> 00:05:35,970

securing the date and the schedule you

93

00:05:54,399 --> 00:05:37,350

know because it's a lot to that but that

94

00:05:58,159 --> 00:05:56,449

since I've lived here in Florida though

95

00:06:01,039 --> 00:05:58,169

I think one of my neatest moments was

96

00:06:04,339 --> 00:06:01,049

hung for SES 115 I got to actually roll

97

00:06:07,909 --> 00:06:04,349

out to the pad on the crawler with the

98

00:06:09,889 --> 00:06:07,919

orbiter and it was part of a vibration

99

00:06:11,779 --> 00:06:09,899

team and there was many people and they

100

00:06:13,549 --> 00:06:11,789

were all on their computers and we had

101
00:06:15,439 --> 00:06:13,559
sensors on the engine sensors on the

102
00:06:18,159 --> 00:06:15,449
orbiter to see what the shaking of the

103
00:06:20,329 --> 00:06:18,169
one mile an hour trip does for you and

104
00:06:22,369 --> 00:06:20,339
part of my duties was just to make sure

105
00:06:24,019 --> 00:06:22,379
nobody got hurt fell down stairs and

106
00:06:26,059 --> 00:06:24,029
whatnot I really wasn't a vibration

107
00:06:27,739 --> 00:06:26,069
person but one of the neatest things was

108
00:06:29,119 --> 00:06:27,749
about six thirty in the morning we're

109
00:06:30,649 --> 00:06:29,129
getting close to the pad than the Sun

110
00:06:32,209 --> 00:06:30,659
rises over the ocean so you kind of

111
00:06:33,889 --> 00:06:32,219
forget where we are when it was really

112
00:06:51,670 --> 00:06:33,899
pretty and you stand next to a spaceship

113
00:06:57,920 --> 00:06:54,290

about a year and a half after I started

114

00:07:02,000 --> 00:06:57,930

working here by the opportunity to go to

115

00:07:04,100 --> 00:07:02,010

a launch at KSC and while at a reception

116

00:07:07,850 --> 00:07:04,110

I had the opportunity to meet John Young

117

00:07:09,890 --> 00:07:07,860

and I was able to talk to him for a

118

00:07:12,470 --> 00:07:09,900

while and he asked me what I was working

119

00:07:15,380 --> 00:07:12,480

on and at the time I was working on an

120

00:07:18,410 --> 00:07:15,390

investigation team for the high pressure

121

00:07:22,160 --> 00:07:18,420

fuel turbine blades and he started to

122

00:07:24,770 --> 00:07:22,170

ask me very specific questions the level

123

00:07:30,170 --> 00:07:24,780

of detail indicated that he was very

124

00:07:33,100 --> 00:07:30,180

familiar with the investigation at that

125

00:07:37,790 --> 00:07:33,110

time it became clear to me how much was

126
00:07:41,780 --> 00:07:37,800
riding on our engines how important it

127
00:08:00,980 --> 00:07:41,790
was his leisure do our jobs not only

128
00:08:07,380 --> 00:08:04,260
probably the most memorable memorable

129
00:08:10,980 --> 00:08:07,390
moment would be the first launched STS

130
00:08:12,540 --> 00:08:10,990
70 with the LOX pump 14 I was the first

131
00:08:16,200 --> 00:08:12,550
Pratt when he pumped to fly on the

132
00:08:18,240 --> 00:08:16,210
shuttle that was July thirteenth 1995

133
00:08:20,850 --> 00:08:18,250
and that launched not only was important

134
00:08:23,160 --> 00:08:20,860
for us being the first product to fly on

135
00:08:24,780 --> 00:08:23,170
the shuttle but it also was the launch

136
00:08:26,970 --> 00:08:24,790
that was delayed by the woodpecker's

137
00:08:29,460 --> 00:08:26,980
that were attacking the foam on the

138
00:08:31,350 --> 00:08:29,470

external tank so we were patiently

139

00:08:33,630 --> 00:08:31,360

waiting for the launch but it kept being

140

00:08:37,890 --> 00:08:33,640

delayed because of foam problems with

141

00:08:39,990 --> 00:08:37,900

the external tanks so now they they have

142

00:08:43,170 --> 00:08:40,000

people guard against that with sirens

143

00:09:02,790 --> 00:08:43,180

and horns to blow away you know scare

144

00:09:06,579 --> 00:09:04,930

well I think what's so amazing about

145

00:09:08,980 --> 00:09:06,589

space and the shuttle and everything

146

00:09:11,619 --> 00:09:08,990

that goes into this is the wow factor of

147

00:09:13,150 --> 00:09:11,629

it I think as a child you are wowed by

148

00:09:15,910 --> 00:09:13,160

almost everything everything to you is

149

00:09:16,990 --> 00:09:15,920

amazing is captivating is interesting

150

00:09:18,910 --> 00:09:17,000

and there are very few things that you

151
00:09:21,280 --> 00:09:18,920
carry on as an adult that you feel the

152
00:09:23,949 --> 00:09:21,290
same way about and I feel that the space

153
00:09:25,329 --> 00:09:23,959
program and space exploration are one of

154
00:09:27,999 --> 00:09:25,339
the few things at least for me that

155
00:09:30,369 --> 00:09:28,009
still captivate me that still make me go

156
00:09:32,410 --> 00:09:30,379
wow this is amazing every time I see a

157
00:09:34,840 --> 00:09:32,420
picture of the planet Earth or the

158
00:09:36,759 --> 00:09:34,850
northern lights or even other solar

159
00:09:39,550 --> 00:09:36,769
systems it just shocks me and amazes me

160
00:09:41,439 --> 00:09:39,560
so I think that's the importance of

161
00:09:42,670 --> 00:09:41,449
space and how it makes people feel it

162
00:10:02,150 --> 00:09:42,680
just makes you feel like a child again

163
00:10:08,010 --> 00:10:05,130

back in about nineteen seventy and I was

164

00:10:11,190 --> 00:10:08,020

a little girl my father was working on

165

00:10:14,280 --> 00:10:11,200

the ssme capture proposal he was on the

166

00:10:16,800 --> 00:10:14,290

proposal team and he worked incredibly

167

00:10:20,040 --> 00:10:16,810

long hours as they all did I think they

168

00:10:22,440 --> 00:10:20,050

were working about 16 hour days and for

169

00:10:24,810 --> 00:10:22,450

a long period of time it really didn't

170

00:10:26,490 --> 00:10:24,820

see him I might see him on the weekends

171

00:10:29,130 --> 00:10:26,500

definitely never during the week because

172

00:10:31,290 --> 00:10:29,140

he would work so late and there was

173

00:10:36,060 --> 00:10:31,300

tremendous pressure put on all of those

174

00:10:38,130 --> 00:10:36,070

people because they knew that with the

175

00:10:40,980 --> 00:10:38,140

end of the Apollo program that if they

176

00:10:44,480 --> 00:10:40,990

didn't capture the same contract that

177

00:10:47,070 --> 00:10:44,490

this division may not exist anymore and

178

00:10:49,800 --> 00:10:47,080

one night he came home with the news

179

00:10:51,570 --> 00:10:49,810

that they had won the proposal and it

180

00:10:54,330 --> 00:10:51,580

was very exciting thing and I can

181

00:10:56,130 --> 00:10:54,340

remember my mom and my dad calling all

182

00:10:57,900 --> 00:10:56,140

the relatives and letting them know that

183

00:11:00,020 --> 00:10:57,910

they have won the program so it was a

184

00:11:03,000 --> 00:11:00,030

big deal and that would have been around

185

00:11:05,490 --> 00:11:03,010

1971-72 sometime in that time frame so

186

00:11:24,019 --> 00:11:05,500

and he spent the rest of his career run

187

00:11:32,850 --> 00:11:29,190

supporting sts-1

188

00:11:36,840 --> 00:11:32,860

I went down there as a worker if you

189

00:11:39,780 --> 00:11:36,850

will supporting and I had the foresight

190

00:11:42,180 --> 00:11:39,790

to bring one of these big black briefing

191

00:11:46,140 --> 00:11:42,190

cases full of view graphs we didn't have

192

00:11:48,900 --> 00:11:46,150

all the electronic aids in those days so

193

00:11:51,690 --> 00:11:48,910

in the two-day delay i ended up giving

194

00:11:54,120 --> 00:11:51,700

briefing stole the dignitaries like

195

00:11:56,820 --> 00:11:54,130

yardley in weeks and people like that

196

00:12:01,160 --> 00:11:56,830

just to occupy them until we finally

197

00:12:08,660 --> 00:12:01,170

launched and of course the launch was

198

00:12:13,680 --> 00:12:11,970

where's the power I can remember my wife

199

00:12:17,310 --> 00:12:13,690

looking at me and I'm standing there

200

00:12:19,050 --> 00:12:17,320

with tears flowing down my cheeks and

201
00:12:20,760 --> 00:12:19,060
she was slightly embarrassed and then

202
00:12:24,060 --> 00:12:20,770
she looked around and everybody else

203
00:12:27,480 --> 00:12:24,070
involved was in the same emotional state

204
00:12:30,540 --> 00:12:27,490
you know so we just celebrated like you

205
00:12:34,500 --> 00:12:30,550
couldn't believe several of us ended up

206
00:12:53,629 --> 00:12:34,510
in the Atlantic Ocean as part of the

207
00:13:01,110 --> 00:12:58,110
my son you know he really um he's he's a

208
00:13:02,999 --> 00:13:01,120
funny guy you know he's his mom I just

209
00:13:05,819 --> 00:13:03,009
love to tell people that you work on the

210
00:13:07,860 --> 00:13:05,829
space shuttle program and they asked me

211
00:13:10,650 --> 00:13:07,870
about it all the time well what does

212
00:13:12,780 --> 00:13:10,660
your mom do and and does she goes up on

213
00:13:15,840 --> 00:13:12,790

the space shuttle you know these little

214

00:13:18,300 --> 00:13:15,850

kids you know and he says no you know

215

00:13:21,840 --> 00:13:18,310

she just make sure the hardware is

216

00:13:25,259 --> 00:13:21,850

connected on the computer and when that

217

00:13:29,090 --> 00:13:25,269

shuttle takes off it touches my heart

218

00:13:48,490 --> 00:13:29,100

that I had something to do with it and

219

00:13:54,259 --> 00:13:52,280

the experience is almost a little bit

220

00:13:58,129 --> 00:13:54,269

like Groundhog Day because every every

221

00:13:59,600 --> 00:13:58,139

launch is different and new they've

222

00:14:01,790 --> 00:13:59,610

never been done before that particular

223

00:14:06,379 --> 00:14:01,800

launch that day whether it's during the

224

00:14:09,019 --> 00:14:06,389

day or afternoon or evening is special

225

00:14:12,470 --> 00:14:09,029

and there's a there's a certain thing

226

00:14:15,740 --> 00:14:12,480

that you feel it's both a visual

227

00:14:18,139 --> 00:14:15,750

experience as well as a physical you

228

00:14:20,629 --> 00:14:18,149

feel like raising the American flag and

229

00:14:23,240 --> 00:14:20,639

clapping and at the same time you feel

230

00:14:25,490 --> 00:14:23,250

very patriotic about it all and amazed

231

00:14:27,189 --> 00:14:25,500

by it all those of us who get to work

232

00:14:30,170 --> 00:14:27,199

very close to the hardware and the

233

00:14:33,650 --> 00:14:30,180

people who work on the hardware you are

234

00:14:36,050 --> 00:14:33,660

just amazed at the complexity of the

235

00:14:38,869 --> 00:14:36,060

whole thing and the beauty of the whole