



Astronaut

at a Glance

1
00:00:12,150 --> 00:00:09,750
when i was at the marshall space flight

2
00:00:13,990 --> 00:00:12,160
center as an intern when i was in

3
00:00:15,350 --> 00:00:14,000
undergrad

4
00:00:18,150 --> 00:00:15,360
we had an opportunity to help out there

5
00:00:21,349 --> 00:00:18,160
at the u.s space and rocket center

6
00:00:23,189 --> 00:00:21,359
and space camp and i was able to teach

7
00:00:24,310 --> 00:00:23,199
some classes on the space shuttle and

8
00:00:28,070 --> 00:00:24,320
the orbiter

9
00:00:31,189 --> 00:00:29,669
elementary and middle school teachers

10
00:00:32,790 --> 00:00:31,199
who are coming down to get the education

11
00:00:34,389 --> 00:00:32,800
to bring back to their classrooms i went

12
00:00:37,590 --> 00:00:34,399
to college at a real small liberal arts

13
00:00:39,190 --> 00:00:37,600

school called albion college and there i

14

00:00:42,310 --> 00:00:39,200

got a fundamental

15

00:00:44,709 --> 00:00:42,320

solid education in physics and math but

16

00:00:46,869 --> 00:00:44,719

also the foundation in a spectrum of

17

00:00:49,910 --> 00:00:46,879

other disciplines including economics

18

00:00:51,270 --> 00:00:49,920

and arts and humanities

19

00:00:52,869 --> 00:00:51,280

and it was there that i got my first

20

00:00:54,630 --> 00:00:52,879

taste of

21

00:00:56,630 --> 00:00:54,640

collaborative learning and peer

22

00:00:58,790 --> 00:00:56,640

mentorship and

23

00:01:01,349 --> 00:00:58,800

and exploration really after albion i

24

00:01:03,670 --> 00:01:01,359

went to university of rochester again to

25

00:01:05,030 --> 00:01:03,680

continue this this idea of exploration

26

00:01:08,230 --> 00:01:05,040

and i was

27

00:01:10,469 --> 00:01:08,240

a phd student in high energy physics and

28

00:01:13,750 --> 00:01:10,479

was part of an incredible team there had

29

00:01:16,070 --> 00:01:13,760

a had a superb mentor and

30

00:01:18,710 --> 00:01:16,080

advisor and we were part of an

31

00:01:20,950 --> 00:01:18,720

experiment with 500 scientists

32

00:01:22,070 --> 00:01:20,960

from about 40 universities in 10 10

33

00:01:24,149 --> 00:01:22,080

countries

34

00:01:26,469 --> 00:01:24,159

and we were at the cutting edge of high

35

00:01:29,590 --> 00:01:26,479

energy physics and

36

00:01:31,350 --> 00:01:29,600

it was uh it was a really exciting time

37

00:01:33,270 --> 00:01:31,360

to be there and to be making the

38

00:01:34,950 --> 00:01:33,280

discoveries and after the university of

39

00:01:37,270 --> 00:01:34,960

rochester i went into the navy and

40

00:01:39,670 --> 00:01:37,280

became a test pilot you know it is uh

41

00:01:41,350 --> 00:01:39,680

it's tough to pick any one thing we have

42

00:01:43,190 --> 00:01:41,360

gotten to do things like the national

43

00:01:45,030 --> 00:01:43,200

outdoor leadership course

44

00:01:47,030 --> 00:01:45,040

for a week and a half

45

00:01:50,310 --> 00:01:47,040

getting in the pool the neutral buoyancy

46

00:01:52,389 --> 00:01:50,320

lab and training for spacewalks

47

00:01:54,550 --> 00:01:52,399

we're getting into robotics

48

00:01:56,789 --> 00:01:54,560

we fly a lot

49

00:01:57,670 --> 00:01:56,799

it is it is really tough to pick any one

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00:01:59,670 --> 00:01:57,680

thing

51
00:02:01,910 --> 00:01:59,680
i'm surprised at how much i ended up

52
00:02:03,190 --> 00:02:01,920
enjoying learning russian

53
00:02:05,990 --> 00:02:03,200
that is nothing i could have made an

54
00:02:08,710 --> 00:02:06,000
excuse to do and it is just

55
00:02:10,790 --> 00:02:08,720
it's an incredible experience

56
00:02:12,710 --> 00:02:10,800
and and very diverse uh in terms of the

57
00:02:15,430 --> 00:02:12,720
way we spend our time

58
00:02:17,670 --> 00:02:15,440
but for me i think the the most

59
00:02:18,710 --> 00:02:17,680
interesting thing has been we've got so

60
00:02:20,550 --> 00:02:18,720
many different personalities and

61
00:02:22,390 --> 00:02:20,560
backgrounds in the group and it's really

62
00:02:24,229 --> 00:02:22,400
neat to merge those

63
00:02:26,550 --> 00:02:24,239

those strengths and get to a position

64

00:02:29,270 --> 00:02:26,560

where we need to be which is to be ready

65

00:02:31,430 --> 00:02:29,280

uh as a group for the next generation of

66

00:02:33,750 --> 00:02:31,440

space exploration you've got a variety

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00:02:36,869 --> 00:02:33,760

of tools to use and most importantly you

68

00:02:38,150 --> 00:02:36,879

have problem solving skill set

69

00:02:39,910 --> 00:02:38,160

something i call

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00:02:41,430 --> 00:02:39,920

intellectual courage

71

00:02:43,910 --> 00:02:41,440

you may not have the background or the

72

00:02:45,990 --> 00:02:43,920

expertise in a specific topic but you do

73

00:02:48,869 --> 00:02:46,000

have the courage and

74

00:02:51,430 --> 00:02:48,879

and know how to tackle that problem and

75

00:02:52,949 --> 00:02:51,440

and tackle something that maybe at the

76

00:02:54,630 --> 00:02:52,959

outset seems

77

00:02:56,470 --> 00:02:54,640

insurmountable and

78

00:02:58,710 --> 00:02:56,480

it quickly becomes something that we can

79

00:03:00,309 --> 00:02:58,720

handle or even thrive in well that's

80

00:03:02,790 --> 00:03:00,319

what makes it fun right the hard stuff

81

00:03:05,990 --> 00:03:02,800

is uh is the fun stuff it uh it's hard

82

00:03:09,589 --> 00:03:06,000

for a reason and uh for me i

83

00:03:11,670 --> 00:03:09,599

i just so genuinely enjoy uh the the eva

84

00:03:14,309 --> 00:03:11,680

training the spacewalk training um and

85

00:03:15,830 --> 00:03:14,319

it's physically demanding um i've you

86

00:03:16,790 --> 00:03:15,840

find out very quickly that you don't

87

00:03:18,470 --> 00:03:16,800

have the forearm strength that you

88

00:03:21,509 --> 00:03:18,480

thought you did

89

00:03:22,949 --> 00:03:21,519

and it's just uh it's in a really

90

00:03:26,070 --> 00:03:22,959

incredible experience that pushes you

91

00:03:27,910 --> 00:03:26,080

both physically and mentally and it's uh

92

00:03:29,430 --> 00:03:27,920

it's quite rewarding nobody could do

93

00:03:30,710 --> 00:03:29,440

this on their own

94

00:03:34,229 --> 00:03:30,720

and

95

00:03:37,509 --> 00:03:34,239

can do together as a team

96

00:03:40,070 --> 00:03:38,869

you know there's no telling what we're