



1
00:00:06,470 --> 00:00:03,750
and i've always been very intrigued with

2
00:00:09,030 --> 00:00:06,480
building stuff making stuff the most fun

3
00:00:11,190 --> 00:00:09,040
i can remember as a child is playing in

4
00:00:12,870 --> 00:00:11,200
the dirt with match boxes it wasn't

5
00:00:15,829 --> 00:00:12,880
necessarily the match boxes because i

6
00:00:17,109 --> 00:00:15,839
built roads and i built bridges and i'd

7
00:00:18,550 --> 00:00:17,119
get you know there'd be grass and i'd

8
00:00:19,830 --> 00:00:18,560
pull the grass up and i'd make it dirt

9
00:00:22,550 --> 00:00:19,840
didn't make my dad happy because it was

10
00:00:24,070 --> 00:00:22,560
a yard and and i'd build and i'd carve

11
00:00:25,509 --> 00:00:24,080
roads out little ditches make little

12
00:00:27,109 --> 00:00:25,519
mountains and do all that kind of stuff

13
00:00:28,870 --> 00:00:27,119

that was when i was you know before i

14

00:00:29,910 --> 00:00:28,880

was scotch we moved to the house my

15

00:00:31,509 --> 00:00:29,920

parents lived in now when i was eight so

16

00:00:35,910 --> 00:00:31,519

i was probably five and six years old

17

00:00:40,389 --> 00:00:38,630

the very first project i ever did was i

18

00:00:43,350 --> 00:00:40,399

was always kind of intrigued i'm a navy

19

00:00:46,630 --> 00:00:43,360

guy i was intrigued with ships so

20

00:00:48,389 --> 00:00:46,640

i took a model of the santa maria just a

21

00:00:50,950 --> 00:00:48,399

picture and i

22

00:00:53,350 --> 00:00:50,960

drew out how i would go about building a

23

00:00:54,470 --> 00:00:53,360

small model of this ship but i had no

24

00:00:56,630 --> 00:00:54,480

training i didn't know how to build

25

00:00:58,470 --> 00:00:56,640

anything like that so i just just went

26
00:00:59,910 --> 00:00:58,480
with what i thought would be a smart way

27
00:01:00,950 --> 00:00:59,920
to go and i built a kind of a skeleton

28
00:01:02,950 --> 00:01:00,960
inside and then i started putting little

29
00:01:04,869 --> 00:01:02,960
strips of wood over it and within you

30
00:01:06,550 --> 00:01:04,879
know eight months or so voila i had a

31
00:01:07,990 --> 00:01:06,560
ship

32
00:01:10,870 --> 00:01:08,000
so the biggest project i've ever

33
00:01:12,789 --> 00:01:10,880
undertaken is in my backyard at my house

34
00:01:14,230 --> 00:01:12,799
and i envisioned about a four-stage

35
00:01:16,310 --> 00:01:14,240
project which would be building a

36
00:01:18,950 --> 00:01:16,320
pergola putting a patio under it and

37
00:01:20,710 --> 00:01:18,960
tying it into the pool so my four-stage

38
00:01:22,870 --> 00:01:20,720

project has now turned into about a

39

00:01:25,670 --> 00:01:22,880

74-stage project

40

00:01:28,710 --> 00:01:25,680

which has gone from literally starting

41

00:01:30,870 --> 00:01:28,720

out building sidewalks around the side

42

00:01:33,030 --> 00:01:30,880

building a very large pergola that i

43

00:01:35,190 --> 00:01:33,040

designed on excel and the process is

44

00:01:36,390 --> 00:01:35,200

taken i'm about two years took about two

45

00:01:38,149 --> 00:01:36,400

years totally and i'm still not

46

00:01:40,230 --> 00:01:38,159

completely finished but anyway the

47

00:01:41,990 --> 00:01:40,240

project's been great we love it it's got

48

00:01:43,670 --> 00:01:42,000

like i said i built the shed and my

49

00:01:45,830 --> 00:01:43,680

daughters they always name they name the

50

00:01:47,270 --> 00:01:45,840

cars they name everything and so they

51
00:01:48,870 --> 00:01:47,280
they said we got to name the shed i said

52
00:01:51,830 --> 00:01:48,880
how about sarai

53
00:01:53,109 --> 00:01:51,840
because that's shed in russian so since

54
00:01:55,350 --> 00:01:53,119
i speak a little bit of russian now we

55
00:01:57,270 --> 00:01:55,360
named the shed sarai thanks to my oldest

56
00:02:00,230 --> 00:01:57,280
daughter darren so it's been a great

57
00:02:02,550 --> 00:02:00,240
great project and a lot of fun

58
00:02:04,469 --> 00:02:02,560
we can't call the ac guy to come out and

59
00:02:06,230 --> 00:02:04,479
fix the cooling system in the space

60
00:02:08,150 --> 00:02:06,240
station we have to do it ourselves so

61
00:02:10,469 --> 00:02:08,160
having that kind of ability to kind of

62
00:02:13,589 --> 00:02:10,479
think in those kind of kind of realms is

63
00:02:14,710 --> 00:02:13,599

very very beneficial uh i uh for those

64

00:02:16,150 --> 00:02:14,720

type of things i know in the training

65

00:02:17,190 --> 00:02:16,160

i've trained on many different systems

66

00:02:18,710 --> 00:02:17,200

all the systems throughout the space

67

00:02:21,030 --> 00:02:18,720

station that's why it's such a long

68

00:02:23,430 --> 00:02:21,040

process and intuitively a lot of it just

69

00:02:24,630 --> 00:02:23,440

makes sense you know i've i've had the

70

00:02:27,350 --> 00:02:24,640

fortune

71

00:02:28,790 --> 00:02:27,360

of i have an engineering degree and a

72

00:02:30,710 --> 00:02:28,800

master's degree

73

00:02:32,630 --> 00:02:30,720

but my entire career has been in

74

00:02:34,150 --> 00:02:32,640

operations i basically have not done

75

00:02:36,710 --> 00:02:34,160

much design work but i've been an

76

00:02:38,229 --> 00:02:36,720

operator and for what we do on orbit to

77

00:02:40,390 --> 00:02:38,239

having all that you know years in the

78

00:02:42,710 --> 00:02:40,400

military flying airplanes you know

79

00:02:44,309 --> 00:02:42,720

landing on aircraft carriers and all

80

00:02:46,229 --> 00:02:44,319

that kind of stuff it's just been kind

81

00:02:48,229 --> 00:02:46,239

of the way i was raised professionally

82

00:02:50,150 --> 00:02:48,239

and all that parlays very well into what

83

00:02:51,990 --> 00:02:50,160

we're doing that kind of mindset and

84

00:02:53,350 --> 00:02:52,000

understanding how things work

85

00:02:54,790 --> 00:02:53,360

having that kind of intuitive feel for

86

00:02:56,630 --> 00:02:54,800

how things work and

87

00:02:58,470 --> 00:02:56,640

and how things you know basically fit

88

00:02:59,750 --> 00:02:58,480

together so you can take things off and

89

00:03:01,990 --> 00:02:59,760

put them back on and that type of stuff

90

00:03:03,750 --> 00:03:02,000

so it's been it's been very helpful in

91

00:03:05,030 --> 00:03:03,760

the training and i from what i'm told

92

00:03:06,710 --> 00:03:05,040

you know six months on board i've never

93

00:03:08,390 --> 00:03:06,720

done that but from what i'm told from