



1  
00:00:04,390 --> 00:00:01,990  
well one of the big things in my life

2  
00:00:06,869 --> 00:00:04,400  
that really changed a lot of things for

3  
00:00:08,790 --> 00:00:06,879  
me was becoming a type 1 diabetic

4  
00:00:10,709 --> 00:00:08,800  
one night i'm walking down the hallway

5  
00:00:13,110 --> 00:00:10,719  
and i can't even walk straight blood

6  
00:00:15,270 --> 00:00:13,120  
sugar's a thousand and

7  
00:00:17,510 --> 00:00:15,280  
lucky i lived to the next day

8  
00:00:19,029 --> 00:00:17,520  
sort of thing but i'll tell you that

9  
00:00:21,109 --> 00:00:19,039  
shaped my life

10  
00:00:21,910 --> 00:00:21,119  
in a big way because

11  
00:00:24,470 --> 00:00:21,920  
there

12  
00:00:25,589 --> 00:00:24,480  
i went from you know being blissfully

13  
00:00:28,470 --> 00:00:25,599

unaware

14

00:00:31,189 --> 00:00:28,480

to having to control a major bodily

15

00:00:32,709 --> 00:00:31,199

function by myself every day it was one

16

00:00:34,950 --> 00:00:32,719

of those things where i could have let

17

00:00:36,950 --> 00:00:34,960

it stop me a lot of people just give up

18

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

but no that's

19

00:00:39,750 --> 00:00:38,559

it's another one of those life lessons

20

00:00:41,110 --> 00:00:39,760

you

21

00:00:43,510 --> 00:00:41,120

learn about it

22

00:00:45,350 --> 00:00:43,520

you deal with it you control it and you

23

00:00:47,110 --> 00:00:45,360

move on to do the rest of the things in

24

00:00:49,270 --> 00:00:47,120

your life

25

00:00:53,670 --> 00:00:49,280

my name is karen gundy berlet i'm a

26

00:00:56,069 --> 00:00:53,680

research scientist and i work at nasa

27

00:00:58,069 --> 00:00:56,079

my uncle floyd started a little

28

00:01:00,069 --> 00:00:58,079

airline between paso robles and santa

29

00:01:01,590 --> 00:01:00,079

cruz and basically it was to distribute

30

00:01:04,710 --> 00:01:01,600

the apples from the family ranch in

31

00:01:07,350 --> 00:01:04,720

washington down into the area here

32

00:01:09,350 --> 00:01:07,360

but beyond just the airline he also did

33

00:01:11,350 --> 00:01:09,360

barnstorming and i grew up with all of

34

00:01:13,910 --> 00:01:11,360

these wonderful pictures and stories of

35

00:01:16,390 --> 00:01:13,920

all of his exploits and it did make me

36

00:01:19,429 --> 00:01:16,400

very aware of aviation

37

00:01:22,469 --> 00:01:19,439

i was born in san jose california lived

38

00:01:25,190 --> 00:01:22,479

in the same house all my life i went to

39

00:01:27,990 --> 00:01:25,200

uc berkeley for my undergraduate degree

40

00:01:29,990 --> 00:01:28,000

and then to stanford for my master's and

41

00:01:31,510 --> 00:01:30,000

phd degrees

42

00:01:33,190 --> 00:01:31,520

undergraduate degree was in mechanical

43

00:01:36,069 --> 00:01:33,200

engineering and master's in phd in

44

00:01:38,950 --> 00:01:36,079

aeronautical engineering

45

00:01:40,469 --> 00:01:38,960

my high school biology teacher knew hans

46

00:01:42,149 --> 00:01:40,479

mark who was a center director at the

47

00:01:43,749 --> 00:01:42,159

time and

48

00:01:45,670 --> 00:01:43,759

so she knew that there was programs for

49

00:01:48,469 --> 00:01:45,680

high school students it was one of those

50

00:01:50,950 --> 00:01:48,479

amazing interviews here i am just a you

51  
00:01:53,510 --> 00:01:50,960  
know a high school junior and

52  
00:01:56,069 --> 00:01:53,520  
talking about differential equations and

53  
00:01:58,630 --> 00:01:56,079  
how they approximate them and it just

54  
00:02:00,069 --> 00:01:58,640  
it was great so i um that was my first

55  
00:02:01,510 --> 00:02:00,079  
experience at nasa was with that

56  
00:02:03,590 --> 00:02:01,520  
interview and i just

57  
00:02:05,510 --> 00:02:03,600  
from there on i worked one day a week at

58  
00:02:07,190 --> 00:02:05,520  
nasa during the school year

59  
00:02:09,589 --> 00:02:07,200  
and i was paired off with a series of

60  
00:02:11,510 --> 00:02:09,599  
different mentors wonderful

61  
00:02:13,030 --> 00:02:11,520  
research scientists who

62  
00:02:14,150 --> 00:02:13,040  
taught me

63  
00:02:17,190 --> 00:02:14,160

so much

64

00:02:19,510 --> 00:02:17,200

right now i'm working on the lunar

65

00:02:21,990 --> 00:02:19,520

atmosphere dust environment explorer

66

00:02:24,309 --> 00:02:22,000

it's a spacecraft mission i'm the flight

67

00:02:25,990 --> 00:02:24,319

software quality engineer

68

00:02:28,150 --> 00:02:26,000

being able to actually apply a lot of

69

00:02:30,070 --> 00:02:28,160

that background work i've done in what

70

00:02:33,030 --> 00:02:30,080

happens in software systems and and the

71

00:02:35,030 --> 00:02:33,040

interaction between software systems and

72

00:02:37,190 --> 00:02:35,040

people and that interface and so being

73

00:02:38,550 --> 00:02:37,200

able to use that in order to

74

00:02:41,750 --> 00:02:38,560

to

75

00:02:44,229 --> 00:02:41,760

create new ways of verifying

76

00:02:46,150 --> 00:02:44,239

flight software is is just a fun job for

77

00:02:47,350 --> 00:02:46,160

me right now

78

00:02:48,790 --> 00:02:47,360

one of the things that i've learned here

79

00:02:51,350 --> 00:02:48,800

is even though i'm a math and techie

80

00:02:52,869 --> 00:02:51,360

person communication is absolutely vital

81

00:02:54,070 --> 00:02:52,879

if you can't talk about what you're

82

00:02:55,990 --> 00:02:54,080

doing

83

00:02:57,830 --> 00:02:56,000

it doesn't matter to the rest

84

00:03:00,550 --> 00:02:57,840

you if you can't convey it it's not of

85

00:03:02,229 --> 00:03:00,560

any use to anybody else

86

00:03:05,190 --> 00:03:02,239

i would advise somebody to not

87

00:03:06,949 --> 00:03:05,200

specialize too quickly too early i mean

88

00:03:08,869 --> 00:03:06,959



to

89

00:03:10,790 --> 00:03:08,879

really understand what's going on in

90

00:03:13,750 --> 00:03:10,800

math to link it with your sciences and

91

00:03:15,670 --> 00:03:13,760

learn how to communicate all of that

92

00:03:17,509 --> 00:03:15,680

be an intern figure out what you want to

93

00:03:19,509 --> 00:03:17,519

do with your life try a few different

94

00:03:23,030 --> 00:03:19,519

places a few different companies

95

00:03:24,789 --> 00:03:23,040

don't be afraid to test the waters out

96

00:03:27,589 --> 00:03:24,799

i've probably had

97

00:03:29,910 --> 00:03:27,599

five or six really critical mentors as

98

00:03:33,110 --> 00:03:29,920

i've moved through my career starting

99

00:03:35,990 --> 00:03:33,120

out as a 16 year old and finding

100

00:03:37,270 --> 00:03:36,000

a series of scientists who were

101  
00:03:38,550 --> 00:03:37,280

helpful

102  
00:03:41,030 --> 00:03:38,560

challenging

103  
00:03:43,110 --> 00:03:41,040

and each one of them i i think highly

104  
00:03:45,830 --> 00:03:43,120

and i try to give back i bring on

105  
00:03:48,309 --> 00:03:45,840

students all the time and try to pass on

106  
00:03:51,110 --> 00:03:48,319

the knowledge and the experience that

107  
00:03:54,789 --> 00:03:51,120

was given to me with new crops of of

108  
00:03:56,949 --> 00:03:54,799

students and other employees

109  
00:03:59,110 --> 00:03:56,959

i think one of the most important things

110  
00:04:01,270 --> 00:03:59,120

when you're coming up young in in a

111  
00:04:02,550 --> 00:04:01,280

field like this is not to be deterred by

112  
00:04:03,429 --> 00:04:02,560

little things

113  
00:04:04,470 --> 00:04:03,439

i mean

114

00:04:07,350 --> 00:04:04,480

every

115

00:04:10,070 --> 00:04:07,360

um little roadblock find a way around it

116

00:04:11,990 --> 00:04:10,080

go over it don't don't let yourself get

117

00:04:13,030 --> 00:04:12,000

stopped because i've watched too many

118

00:04:14,630 --> 00:04:13,040

people

119

00:04:17,110 --> 00:04:14,640

become dispirited because of a little