



1  
00:00:00,006 --> 00:00:15,726  
[MUSIC]

2  
00:00:15,726 --> 00:00:36,726  
[Countdown]

3  
00:00:38,026 --> 00:00:39,646  
[Neil Armstrong:] Ok, engine stop.

4  
00:00:39,646 --> 00:00:43,646  
Tranquility base here, the Eagle has landed.

5  
00:00:43,646 --> 00:01:31,726  
[MUSIC]

6  
00:01:31,726 --> 00:01:36,376  
[Tara:] I get to be a part of an  
unprecedented microgravity laboratory,

7  
00:01:36,436 --> 00:01:40,826  
a big super cool laboratory with  
all these different facilities

8  
00:01:41,296 --> 00:01:44,436  
and these experiments they get to float.

9  
00:01:44,656 --> 00:01:50,296  
It's the only place on Earth you can  
do experiments with gravity being gone.

10  
00:01:50,466 --> 00:01:53,606  
[Cindy:] I get to train the  
astronauts that go to the space station

11  
00:01:53,606 --> 00:01:56,146  
and I also get to work in Mission Control.

12  
00:01:56,416 --> 00:02:00,396

When you go to school to become an engineer you're taught to think critically,

13

00:02:00,786 --> 00:02:02,876

you're taught to solve problems and you're taught

14

00:02:02,876 --> 00:02:05,226

to think outside the box to get a job done.

15

00:02:05,346 --> 00:02:09,646

And all of those skills I have to use here at my job on a daily basis.

16

00:02:10,536 --> 00:02:15,336

[Allison:] When I was in Middle School, IT was not what it is today.

17

00:02:16,566 --> 00:02:18,666

Not by a landslide.

18

00:02:19,736 --> 00:02:22,166

We studied DOS.

19

00:02:23,466 --> 00:02:27,406

(Laugh) In our sixth grade computer science classes.

20

00:02:27,776 --> 00:02:31,806

[CJ:] I didn't really know about engineering or science, technology.

21

00:02:31,846 --> 00:02:33,206

I didn't know about STEM fields.

22

00:02:33,376 --> 00:02:36,376

I think Engineering is really solving problems.

23

00:02:36,416 --> 00:02:38,536

Figuring out ways to solve problems.

24

00:02:38,606 --> 00:02:41,266

Engineering is inventing and coming up with new ideas.

25

00:02:41,606 --> 00:02:45,436

[Antja:] I would say that I loved math, I loved everything about math,

26

00:02:45,436 --> 00:02:51,476

but I just couldn't see exactly how I would use math in my everyday life.

27

00:02:51,546 --> 00:02:56,046

Once I, you know, grew up and got a job and it's actually one

28

00:02:56,126 --> 00:02:58,426

of the foundations to what I do today.

29

00:02:58,496 --> 00:03:01,056

We have to figure out what is the right amount of breathing air

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00:03:01,086 --> 00:03:03,836

to give an astronaut while they're in the spacesuit.

31

00:03:03,836 --> 00:03:08,036

If we miscalculate or we do our math incorrectly then the astronaut will not get enough

32

00:03:08,116 --> 00:03:08,646

breathing air.

33

00:03:08,816 --> 00:03:14,816

[Kimberly:] There are days where my job is to go out and spend the entire day outside

34

00:03:15,126 --> 00:03:18,106

in a field either holding a button so that

35

00:03:18,176 --> 00:03:20,476

if the robot does something  
bad, I can make it stop.

36

00:03:20,586 --> 00:03:24,756

Or testing out my software or helping other  
colleagues testing out their software.

37

00:03:24,756 --> 00:03:30,436

So it's a great day when you actually get  
to spend your day outside testing things

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00:03:30,436 --> 00:03:34,736

out that you developed and they  
worked and everything was successful.

39

00:03:34,736 --> 00:03:38,396

[Carlie:] It's such an exciting thing to think  
about, it's the idea of, of humans living

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00:03:38,396 --> 00:03:41,226

and breathing in an environment  
completely independent of Earth.

41

00:03:41,596 --> 00:03:46,556

In someplace that's six months away.

42

00:03:46,556 --> 00:03:50,126

[Tara:] Scientists these days are some  
of the most diverse people I've seen.

43

00:03:50,166 --> 00:03:53,316

I think the old stereotype of the  
white lab coat and the, you know,

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00:03:53,416 --> 00:03:55,506

pocket protector and the  
glasses is probably out.

45

00:03:55,856 --> 00:04:00,026

In fact, I know some pretty cool women  
with stiletto heels who are scientists

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00:04:00,026 --> 00:04:02,366

and I think they are, I think they're fantastic.

47

00:04:02,586 --> 00:04:05,816

[Julie:] Right now we have the  
spacestation, we've been to the moon.

48

00:04:05,816 --> 00:04:08,566

But we need to setup a base on the  
Moon; we need to setup a base on mars.

49

00:04:08,706 --> 00:04:13,136

And so we always think ahead to the next step,  
even though we may not have people there yet,

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00:04:14,306 --> 00:04:17,606

we're trying to bridge that  
gap, to get us to those places.

51

00:04:18,106 --> 00:04:20,746

[MUSIC]

52

00:04:21,246 --> 00:04:26,616

[Tejal:] As a woman, you can do anything you put  
your heart to, like don't let anyone limit you.

53

00:04:26,666 --> 00:04:27,906

Don't let anyone hold you back.

54

00:04:28,576 --> 00:04:31,856

You should always strive for  
everything that you want.

55  
00:04:31,856 --> 00:04:33,976  
If you want something, go out there and get it.

56  
00:04:34,706 --> 00:04:37,126  
Don't let anyone hold you back  
or anything hold you back.

57  
00:04:38,086 --> 00:04:41,946  
You are someone and you are somebody who  
can make a big difference in this world.

58  
00:04:42,326 --> 00:04:57,906  
You just have to go out there and do it.

59  
00:05:03,236 --> 00:05:06,446  
[Carlie:] I also love the idea that  
I'm working on a human mission to Mars.

60  
00:05:06,676 --> 00:05:10,066  
The work that I do will help  
put a human on another planet.

61  
00:05:11,796 --> 00:05:20,166  
[Allison:] Technology can be  
intimidating, but what I can say is

62  
00:05:20,256 --> 00:05:21,826  
that there's a technology for everybody.

63  
00:05:22,426 --> 00:05:25,526  
There's something.

64  
00:05:29,456 --> 00:05:31,756  
[Carly:] We're doing things  
that nobody's ever done before.

65  
00:05:32,076 --> 00:05:36,416  
We're developing brand new things that  
have never before, you know two years ago,

66  
00:05:36,416 --> 00:05:41,156  
didn't exist and we're making them better and  
making them into something we can actually use.

67  
00:05:41,516 --> 00:05:45,626  
And that's really cool.

68  
00:05:45,926 --> 00:05:50,646  
[Jennifer:] Just because it hasn't been  
done before, doesn't mean that it can't.

69  
00:05:50,646 --> 00:05:55,306  
Just because there aren't more women sitting in  
that room doesn't mean that there never will be.

70  
00:05:55,306 --> 00:06:01,626  
And that YOU have the power to change that.

71  
00:06:01,626 --> 00:06:09,856  
[MUSIC]

72  
00:06:09,856 --> 00:06:13,086  
[Cindy:] Just take advantage of  
every opportunity that you can.

73  
00:06:13,086 --> 00:06:16,496  
Make sure that you do what makes you  
happy and that you pick something

74  
00:06:16,496 --> 00:06:17,906  
that you are truly interested in.

75  
00:06:17,906 --> 00:06:23,076  
You just have to take a step back and look at  
the big picture and realize that at the end