



HUBBLE WOMEN MAKING HISTORY

MADISON BRODNAX

1
00:00:00,000 --> 00:00:14,410
foreign

2
00:00:18,830 --> 00:00:16,910
brodnax and I'm an electrical Power

3
00:00:20,029 --> 00:00:18,840
Systems engineer on the Hubble Space

4
00:00:22,370 --> 00:00:20,039
Telescope

5
00:00:24,769 --> 00:00:22,380
being an electrical Power Systems

6
00:00:27,050 --> 00:00:24,779
engineer entails making sure everything

7
00:00:28,910 --> 00:00:27,060
goes smoothly on the telescope basically

8
00:00:31,550 --> 00:00:28,920
keeping it safe something I do every

9
00:00:34,010 --> 00:00:31,560
year is manage the solar eclipses for

10
00:00:36,950 --> 00:00:34,020
the telescope to make sure that it can

11
00:00:38,930 --> 00:00:36,960
powerwise make it through that me and

12
00:00:40,970 --> 00:00:38,940
the other Electrical Power Systems

13
00:00:43,729 --> 00:00:40,980

Engineers manage any anomalies that

14

00:00:46,549 --> 00:00:43,739

might arise that are power or electrical

15

00:00:47,869 --> 00:00:46,559

related or even thermal related I think

16

00:00:49,729 --> 00:00:47,879

a lot of people think it's just a

17

00:00:52,130 --> 00:00:49,739

telescope floating around in low earth

18

00:00:54,770 --> 00:00:52,140

orbit and it just kind of does its own

19

00:00:57,770 --> 00:00:54,780

thing but in reality there are tons of

20

00:00:59,990 --> 00:00:57,780

people keeping it safe and healthy day

21

00:01:03,170 --> 00:01:00,000

to day with whatever problems may arise

22

00:01:04,850 --> 00:01:03,180

it goes through hot Seasons cold Seasons

23

00:01:06,770 --> 00:01:04,860

there could be electrical problems or

24

00:01:09,230 --> 00:01:06,780

pointing and control problems with it

25

00:01:11,210 --> 00:01:09,240

there's a huge team of people that keeps

26

00:01:12,590 --> 00:01:11,220

that going and seamless so that the

27

00:01:15,230 --> 00:01:12,600

public gets these really great images

28

00:01:17,390 --> 00:01:15,240

you know year after year what I find

29

00:01:19,190 --> 00:01:17,400

most rewarding about the work is

30

00:01:22,249 --> 00:01:19,200

probably being able to flex my

31

00:01:25,429 --> 00:01:22,259

engineering brain every day I think of

32

00:01:27,230 --> 00:01:25,439

working on such a historic project that

33

00:01:29,270 --> 00:01:27,240

has a lot of information that needs to

34

00:01:31,370 --> 00:01:29,280

be learned about it back to its

35

00:01:34,310 --> 00:01:31,380

conceptualization all the way up to now

36

00:01:37,370 --> 00:01:34,320

in 2023 and is really like a privilege

37

00:01:40,789 --> 00:01:37,380

and also keeps me on my feet every day

38

00:01:43,609 --> 00:01:40,799

in my day-to-day I wake up and I pet my

39

00:01:46,910 --> 00:01:43,619

dog for a good like 15-20 minutes if I'm

40

00:01:49,609 --> 00:01:46,920

coming in office it's me versus 295 for

41

00:01:51,050 --> 00:01:49,619

a good 45 minutes once I come in I

42

00:01:52,069 --> 00:01:51,060

usually get to talk with my teammates

43

00:01:54,350 --> 00:01:52,079

about the things that have been

44

00:01:55,969 --> 00:01:54,360

happening for the past week I really

45

00:01:57,830 --> 00:01:55,979

enjoy being able to collaborate with

46

00:01:59,630 --> 00:01:57,840

everybody in the mornings then I sit

47

00:02:01,030 --> 00:01:59,640

down and do some work chug away at some

48

00:02:04,069 --> 00:02:01,040

more coding or some more numbers

49

00:02:06,230 --> 00:02:04,079

hopefully have a cool meeting and get to

50

00:02:08,089 --> 00:02:06,240

schmooze some other NASA people and then

51
00:02:09,830 --> 00:02:08,099
also head home and go to the gym or

52
00:02:13,309 --> 00:02:09,840
trivia I think one thing to take away

53
00:02:15,170 --> 00:02:13,319
from you know being a woman in stem is

54
00:02:17,210 --> 00:02:15,180
that you're stronger and more

55
00:02:18,589 --> 00:02:17,220
knowledgeable than you think you are the

56
00:02:19,790 --> 00:02:18,599
smartest person in the room all of us

57
00:02:21,710 --> 00:02:19,800
are the smartest person in the room and

58
00:02:24,410 --> 00:02:21,720
I think you know worrying about

59
00:02:26,390 --> 00:02:24,420
confidence level is not as important

60
00:02:28,550 --> 00:02:26,400
just showing up flexing the knowledge

61
00:02:30,290 --> 00:02:28,560
that you know you already have is really

62
00:02:32,390 --> 00:02:30,300
important my favorite Hubble image is

63
00:02:33,830 --> 00:02:32,400

probably the butterfly nebula it's you

64

00:02:36,290 --> 00:02:33,840

know one of the older ones but I love