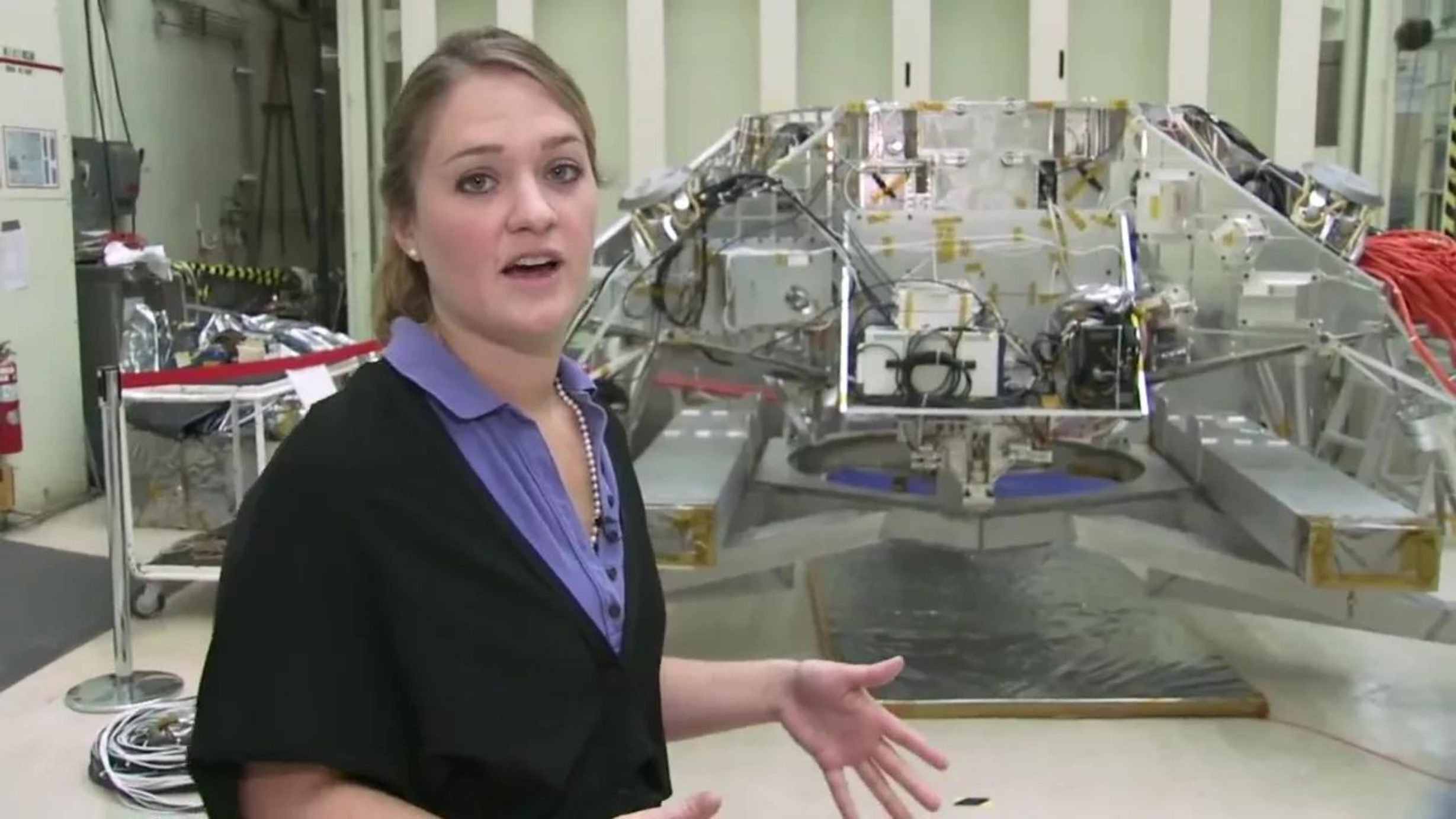

1
00:00:00,000 --> 00:00:06,400
[Music]

2
00:00:11,780 --> 00:00:09,259
hi I'm Savannah McCoy and I'm the rover

3
00:00:13,820 --> 00:00:11,790
verification and validation lead my job

4
00:00:15,650 --> 00:00:13,830
is to run system level tests on the

5
00:00:17,769 --> 00:00:15,660
rover structure to ensure it's capable

6
00:00:20,060 --> 00:00:17,779
of the requirements we have for Mars

7
00:00:21,620 --> 00:00:20,070
basically for the Mars program we build

8
00:00:23,689 --> 00:00:21,630
two Rovers in parallel

9
00:00:26,000 --> 00:00:23,699
once the flight rover and once the test

10
00:00:27,980 --> 00:00:26,010
Rover or DTM the main difference between

11
00:00:29,900 --> 00:00:27,990
the flight Rover and the DTM Rover is

12
00:00:32,630 --> 00:00:29,910
that the flight Rover actually goes to

13
00:00:34,190 --> 00:00:32,640

Mars just recently we ran a major test

14
00:00:36,920 --> 00:00:34,200
called the sky crane full motion drop

15
00:00:38,510 --> 00:00:36,930
test this test is to check out the EDL

16
00:00:40,970 --> 00:00:38,520
sequence or entry descent and landing

17
00:00:42,740 --> 00:00:40,980
sequence for curiosity for the first

18
00:00:45,139 --> 00:00:42,750
time we're going to be touching down on

19
00:00:46,790 --> 00:00:45,149
Mars with just the rover's wheels so

20
00:00:49,520 --> 00:00:46,800
this is the sequence leading up to that

21
00:00:51,290 --> 00:00:49,530
touchdown on Mars because this test is

22
00:00:53,180 --> 00:00:51,300
so important to the project almost all

23
00:00:55,430 --> 00:00:53,190
the team wanted to gather and watch the

24
00:00:56,930 --> 00:00:55,440
test we actually projected it into a

25
00:00:58,639 --> 00:00:56,940
multiple conference rooms around the lab

26
00:01:00,260 --> 00:00:58,649
so that everyone could have access to

27
00:01:03,470 --> 00:01:00,270
this very large milestone for our

28
00:01:12,670 --> 00:01:03,480
project fastest commencing in five five

29
00:01:12,680 --> 00:01:23,850
[Music]

30
00:01:28,240 --> 00:01:26,740
the reason we do all this testing is to

31
00:01:29,800 --> 00:01:28,250
prove that what we think is going to

32
00:01:31,690 --> 00:01:29,810
happen actually will happen when

33
00:01:33,460 --> 00:01:31,700
curiosity gets to Mars and that we

34
00:01:37,270 --> 00:01:33,470
really understand the dynamics of these

35
00:01:39,910 --> 00:01:37,280
vehicles during this test everything

36
00:01:41,469 --> 00:01:39,920
behaved as expected we were able to

37
00:01:43,600 --> 00:01:41,479
collect all of the data and

38
00:01:48,010 --> 00:01:43,610

instrumentation that we were hoping for

39
00:01:50,109 --> 00:01:48,020
so overall definitely a huge success