



1
00:00:02,774 --> 00:00:05,428
The Mighty Eagle is so

2
00:00:05,463 --> 00:00:07,716
earth-friendly. It is fueled by

3
00:00:07,751 --> 00:00:10,788
90 percent concentrated hydrogen

4
00:00:10,823 --> 00:00:12,412
peroxide, which is a green

5
00:00:12,447 --> 00:00:14,493
propellant, and it passes over a

6
00:00:14,528 --> 00:00:17,052
silver catalyst screen, causing

7
00:00:17,087 --> 00:00:19,820
a violent decomposition, giving

8
00:00:19,855 --> 00:00:21,604
the Mighty Eagle its powerful

9
00:00:21,639 --> 00:00:22,660
thrust.

10
00:00:22,695 --> 00:00:34,051
Music

11
00:00:34,086 --> 00:00:35,196
Autonomous rendezvous

12
00:00:35,231 --> 00:00:36,780
and docking is important because

13
00:00:36,815 --> 00:00:39,716

it's a long way, large distance,

14

00:00:39,751 --> 00:00:41,724

between us and other bodies, and

15

00:00:41,759 --> 00:00:43,580

there's not enough time for

16

00:00:43,615 --> 00:00:45,036

humans to be in the loop to

17

00:00:45,071 --> 00:00:47,477

command the vehicle to go left or

18

00:00:47,512 --> 00:00:49,244

right. So the vehicle has to

19

00:00:49,279 --> 00:00:51,292

think for itself. I've gotten a

20

00:00:51,327 --> 00:00:52,404

lot of experience working on the

21

00:00:52,439 --> 00:00:53,508

Mighty Eagle project. I've

22

00:00:53,543 --> 00:00:54,636

learned a lot about programming.

23

00:00:54,671 --> 00:00:55,604

I've learned a lot about

24

00:00:55,639 --> 00:00:56,947

leadership and teamwork skills.

25

00:00:56,982 --> 00:00:58,283

I've learned a lot of

26
00:00:58,318 --> 00:01:00,492
communication skills. I mentored

27
00:01:00,527 --> 00:01:01,996
interns for the first time this

28
00:01:02,031 --> 00:01:03,716
summer, so I learned how to give

29
00:01:03,751 --> 00:01:05,036
commands and work with people

30
00:01:05,071 --> 00:01:06,332
younger than me.

31
00:01:06,367 --> 00:01:28,003
Music

32
00:01:28,038 --> 00:01:29,267
Guidance navigation and control

33
00:01:29,302 --> 00:01:30,587
engineers spend most of their

34
00:01:30,622 --> 00:01:31,771
time in the simulation world,

35
00:01:31,806 --> 00:01:33,939
computer modeling. Flight

36
00:01:33,974 --> 00:01:35,540
testing on the Mighty Eagle

37
00:01:35,575 --> 00:01:37,260
validates that and that's

38
00:01:37,295 --> 00:01:38,972

really invaluable to.

39

00:01:39,007 --> 00:01:41,156

We're pretty good at our computer

40

00:01:41,191 --> 00:01:43,388

modeling, but in the real world,

41

00:01:43,423 --> 00:01:44,971

there's always little surprises.

42

00:01:45,006 --> 00:01:47,292

The devil's always in the details,

43

00:01:47,327 --> 00:01:50,044

and the opportunity to flight

44

00:01:50,079 --> 00:01:52,900

test several times a week has