1
00:00:10,310 --> 00:00:08,549
meeting new people and working with them

2
00:00:12,310 --> 00:00:10,320
on the mars mission it was a really

3
00:00:13,990 --> 00:00:12,320
different experience for me because

4
00:00:15,829 --> 00:00:14,000
i was just put into a group of people

5
00:00:17,590 --> 00:00:15,839
that i didn't know and we had to learn

6
00:00:21,029 --> 00:00:17,600
to cooperate and work together and it

7
00:00:24,550 --> 00:00:22,310
miss lindsay she talked to us on

8
00:00:25,670 --> 00:00:24,560
wednesday about a spacesuit she talked

9
00:00:26,870 --> 00:00:25,680
about the

10
00:00:28,630 --> 00:00:26,880
development

11
00:00:31,669 --> 00:00:28,640
of the spacesuit and where it's heading

12
00:00:32,549 --> 00:00:31,679
in the future and she also had

13
00:00:35,110 --> 00:00:32,559

pieces

14
00:00:37,430 --> 00:00:35,120
of the spacesuit for us to see and see

15
00:00:42,950 --> 00:00:37,440
how they how they work and why they're

16
00:00:46,709 --> 00:00:44,869
i really enjoyed the tours like the tram

17
00:00:48,470 --> 00:00:46,719
tours we went around and saw some

18
00:00:50,470 --> 00:00:48,480
facilities at nasa and how everything

19
00:00:51,510 --> 00:00:50,480
worked we actually go to the old mission

20
00:00:53,670 --> 00:00:51,520
control

21
00:00:55,189 --> 00:00:53,680
um where they actually sat during the

22
00:00:56,950 --> 00:00:55,199
missions and

23
00:00:58,630 --> 00:00:56,960
hufflin talked to us while we were

24
00:01:00,389 --> 00:00:58,640
sitting in the wheelchairs and that was

25
00:01:02,950 --> 00:01:00,399
really cool and then we went to the new

26
00:01:04,229 --> 00:01:02,960
mission control after that and they were

27
00:01:06,550 --> 00:01:04,239
actually

28
00:01:08,310 --> 00:01:06,560
keeping the iss functioning and taking

29
00:01:13,510 --> 00:01:08,320
care of the astronauts and it was pretty

30
00:01:16,950 --> 00:01:15,190
so one of the really cool things that i

31
00:01:18,630 --> 00:01:16,960
i learned from the apollo lecture from

32
00:01:21,270 --> 00:01:18,640
jerry woodhill was that lots of our

33
00:01:22,950 --> 00:01:21,280
popular ideas about the apollo 11 apollo

34
00:01:24,950 --> 00:01:22,960
13 were in fact misconceptions i'm

35
00:01:26,630 --> 00:01:24,960
hearing it from an engineer who actually

36
00:01:28,230 --> 00:01:26,640
worked in the apollo program like jerry

37
00:01:30,069 --> 00:01:28,240
woodhill was was a really interesting

38
00:01:32,310 --> 00:01:30,079

experience

39
00:01:35,270 --> 00:01:32,320
so we were given a problem to design a

40
00:01:37,670 --> 00:01:35,280
tool to fix some unspecified problem of

41
00:01:39,190 --> 00:01:37,680
the iss in a hard-to-reach location so

42
00:01:40,950 --> 00:01:39,200
we came up with

43
00:01:42,469 --> 00:01:40,960
kind of an extended multi-tool we

44
00:01:44,550 --> 00:01:42,479
couldn't have any moving parts on this

45
00:01:47,270 --> 00:01:44,560
thing because we needed to 3d print it

46
00:01:50,069 --> 00:01:47,280
with the 3d printer and as i just got

47
00:01:51,749 --> 00:01:50,079
so i ended up making this on sketchup

48
00:01:53,590 --> 00:01:51,759
with uh

49
00:02:02,630 --> 00:01:53,600
it's a cad design software

50
00:02:06,950 --> 00:02:04,550
so we were in charge of creating the

51
00:02:09,510 --> 00:02:06,960
rover and basically what we had to do

52
00:02:11,110 --> 00:02:09,520
was take the lego mindstorms kit and

53
00:02:13,430 --> 00:02:11,120
then make something that could pick up

54
00:02:16,309 --> 00:02:13,440
items in the most efficient way possible

55
00:02:18,869 --> 00:02:16,319
and so it had to do it quickly and be

56
00:02:21,589 --> 00:02:18,879
able to bring things back to the base

57
00:02:23,830 --> 00:02:21,599
and together we worked on programming

58
00:02:26,630 --> 00:02:23,840
and building the robot there were some

59
00:02:29,030 --> 00:02:26,640
restrictions on our rover such as we had

60
00:02:31,750 --> 00:02:29,040
to have three wheels on the rover and

61
00:02:33,750 --> 00:02:31,760
that had had two sensors as well as we

62
00:02:35,670 --> 00:02:33,760
were trying to be as cost effective as

63
00:02:38,229 --> 00:02:35,680

possible because we were charged for

64
00:02:40,550 --> 00:02:38,239
every single piece we used in the kit

65
00:02:42,869 --> 00:02:40,560
and this was just to emulate these type

66
00:02:44,869 --> 00:02:42,879
of situation that arises when

67
00:02:56,150 --> 00:02:44,879
nasa is actually trying to send rovers

68
00:03:00,229 --> 00:02:58,229
so one thing i really enjoyed about the

69
00:03:02,390 --> 00:03:00,239
week was getting to meet all the people

70
00:03:03,350 --> 00:03:02,400
that actually work at nasa seeing real

71
00:03:04,949 --> 00:03:03,360
people

72
00:03:07,430 --> 00:03:04,959
do real things

73
00:03:09,670 --> 00:03:07,440
and it kind of showed me that nasa isn't

74
00:03:10,869 --> 00:03:09,680
gone nasa is still working they're still

75
00:03:14,390 --> 00:03:10,879
working they're working on a mission to

76
00:03:18,149 --> 00:03:14,400
mars the iss is still operational and it

77
00:03:19,990 --> 00:03:18,159
just put everything into reality for me

78
00:03:22,390 --> 00:03:20,000
overall i think that it was a really

79
00:03:24,470 --> 00:03:22,400
great experience and it was

80
00:03:26,229 --> 00:03:24,480
unforgettable i think that i've learned