1
00:00:00,110 --> 00:00:04,110
Katie Semans: We are taking a robotic arm that was purchased

2
00:00:04,130 --> 00:00:08,110
as a kit, and we are modifying it. What we did is we started with the

3
00:00:08,130 --> 00:00:12,120
robotic arm which is a bunch of servers hardware and what we had to do is basically

4
00:00:12,140 --> 00:00:16,220
write a control for it, which is basically so I can control on the computer and control with voice

5
00:00:16,240 --> 00:00:20,230
commands. Matt Showalter: They are putting a robotic arm system together that ultimately

6
00:00:20,250 --> 00:00:24,230
will move onto a rover for a future proposal. And it's

7
00:00:24,250 --> 00:00:28,430
teaching them some concept of what teamwork is about, how to build a

8
00:00:28,450 --> 00:00:32,520
electromechanical system. Now we're at the point where in a couple of days hopefully we'll have a

9
00:00:32,540 --> 00:00:36,520
the whole system working the way we want it to after, you know, four weeks of work and its

10
00:00:36,540 --> 00:00:40,530
cool seeing other people's work progress along with yours and being able to combine them,

11
00:00:40,550 --> 00:00:44,580
and have your finished product. Actually its been really helpful cause we've got an electric

12
00:00:44,600 --> 00:00:48,600
guy, we've got a lot of mechanical guys, we've got some computer guys which

13
00:00:48,620 --> 00:00:52,610

didn't think about how important those people were if we didn't have those computer science guys,

14
00:00:52,630 --> 00:00:56,630
we would have an arm but I don't know if it could se what we're trying to do. I'm working on

15
00:00:56,650 --> 00:01:00,810
3d printing and material space. If I'm not working upstairs on

16
00:01:00,830 --> 00:01:04,850
my own research I can step in and be like "hey I can do this in salts and I can

17
00:01:04,870 --> 00:01:08,860
help you with this model or something like that, and then I end up helping,

18
00:01:08,880 --> 00:01:12,870
salts modeling is pretty fun. In the short ten weeks that

19
00:01:12,890 --> 00:01:16,870
they have to be able to produce this project

20
00:01:16,890 --> 00:01:20,890
their learning how to take a team that never met anybody before each other before they came

21
00:01:20,910 --> 00:01:25,070
here, bind themselves into a cohesive unit to be able to produce

22
00:01:25,090 --> 00:01:29,090
this project. Our mentor Matt when he bought the arm the idea

23
00:01:29,110 --> 00:01:33,100
was that it would be a stepping-stone to further projects and

24
00:01:33,120 --> 00:01:37,110
more advance projects. So we're kind of at the beginning right now we're not going to finish

25
00:01:37,130 --> 00:01:41,120
whatever we do in 6 weeks, we're going to continue next year and years after in the innovation lab

26
00:01:41,140 --> 00:01:45,140
and hopefully be product and be real useful. Cool.