



1
00:00:00,036 --> 00:00:01,426
This is our wind
tunnel that we built

2
00:00:01,426 --> 00:00:04,206
to test the saltation
sensor, which is an instrument

3
00:00:04,206 --> 00:00:06,806
that we're going to fly on
a lander that goes to Mars.

4
00:00:06,806 --> 00:00:10,476
The saltation sensor
detects particles

5
00:00:10,786 --> 00:00:12,146
as they bounce off the surface.

6
00:00:12,146 --> 00:00:15,616
So this sensor will be very
close to the surface of Mars

7
00:00:15,966 --> 00:00:17,356
on the bottom of a lander.

8
00:00:18,116 --> 00:00:19,796
The wind on Mars would lift

9
00:00:19,796 --> 00:00:22,516
up the particles they
would hit the sensor

10
00:00:22,516 --> 00:00:25,736
and this would detect
the number of impacts,

11
00:00:26,216 --> 00:00:27,816
the energy of the

impacts and the direction.

12

00:00:28,086 --> 00:00:29,526

I remember one time someone brought me a lawnmower

13

00:00:29,526 --> 00:00:30,506

that said it was broken.

14

00:00:30,506 --> 00:00:33,136

He said, "Aw you can have it, it doesn't work anymore."

15

00:00:34,256 --> 00:00:36,326

I worked on it that day, got it working.

16

00:00:36,376 --> 00:00:39,936

I felt kind of guilty after...because I was cutting

17

00:00:39,936 --> 00:00:43,016

the grass with it, I should have given it back to him.

18

00:00:43,706 --> 00:00:45,956

He said I could still have it though.