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Hi. I'm Bobak Ferdowsi, one of the engineers at NASA's Jet Propulsion Laboratory.

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Right now, I'm working on one of the most exciting missions, the Mars Science Lab Curiosity Mission.

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My job is to sent instructions to the rover each day.

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But what you guys are doing is so cool!

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I've been excited about exploring space since I was a kid,

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and one of the best ways to do that is sending robots to places where people can't go.

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It took thousands of people working countless hours to make Curiosity happen.

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It's the size of an SUV, it's got a laser that can zap rocks on Mars, a drill,

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a six wheel, rocker-bogie suspension, 17 cameras and numerous other tools.

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So it's one of the coolest missions out there.

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So, sometimes we have to go back and re-design and check things, just like you guys do.

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Because you're building your own robots, you can imagine what we had to go through-

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things like: the gears, motors, arm, parachute and even the landing system,

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had to be designed for the first time.

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With lots of hard work and countless hours in our shop we were able to make Curiosity happen.

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And now the rover is driving across Gale Crater on it's way to Mount Sharp.

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So we all know how much hard work went into getting to where you are today,