

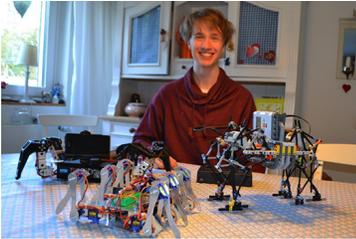
# Top MakerBot® Engineering Stories



Discover What's Possible With MakerBot

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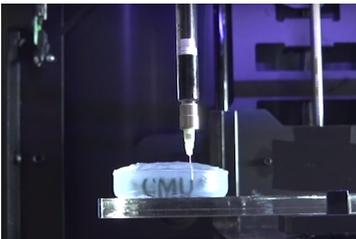


## 1. Six Feet Under With The Rescue Robot

*Product Highlighted: The MakerBot Replicator® Z-18*

Janning Meinert, 18, developed a robot that helps find individuals trapped after an earthquake or other disaster. He first made the legs out of aluminum, and then decided to start using a MakerBot Replicator Z18. Not only were the 3D printed parts lighter and easier to customize, but he slashed fabrication time by two-thirds.

- **Assists with the engineering and development of a robot**



## 2. 3D Printing Arteries

*Product Highlighted: The MakerBot Replicator 2X Experimental 3D Printer*

Adam Feinberg, Professor at Carnegie Mellon and his colleagues are paving the way for a new breakthrough treatment using MakerBot's 3D printers: custom-made tissues and organs for your body. Feinberg and colleagues have already 3D bioprinted models of arteries and embryonic hearts.

- **Revolutionizing medical treatment by creating custom-made tissues and organs for your body**



## 3. Testing a Crop Seeding System

*Product Highlighted: The MakerBot Replicator Desktop 3D Printer (5th Generation)*

Framework Animation is testing a component of a crop seeding system with a prototype created on a MakerBot Replicator. A metal test part would cost thousands of dollars, and each revision would take several weeks to fabricate. With the MakerBot Replicator, "the cost was slashed to hundreds of dollars and the turn-around time reduced to days."

- **Saving agricultural engineering firms time and money on testing**



#### 4. A Helping Bionic Hand

*Product Highlighted: The MakerBot Replicator 2X Experimental 3D Printer*  
David Drummond is creating an advanced 3D printed arm named BOB. Tucked inside of is a Raspberry Pi 2. It controls BOB and makes it an open-source, integrative tech-platform, which is new for bionic hands.

- Paves the way for quick and cost efficient creation of bionic hands for amputees



#### 5. Take Flight With a New Extreme Sport

*Product Highlighted: The MakerBot Replicator 2 Desktop 3D Printer*  
WingBoard creator, Aaron Wypyszynski, is designing a board that firmly attaches to an aircraft and glides the rider through the sky. He uses his MakerBot Replicator 2 to 3D print parts for prototypes of the board and a miniature human body that mimics a prospective rider.

- Assists with the design and prototyping associated with new extreme aviation sport



#### 6. Electricity from Water

*Product Highlighted: The MakerBot Replicator 2 Desktop 3D Printer*  
Brooklyn Technical High School's civil engineering club designed a hydroelectric dam that harvests kinetic energy from flowing water with a 3D printed turbine, then converts that energy into electricity.

- Helps to convert energy into electricity with a dam that depends on 3D printed parts



#### 7. Racing Into the Future

*Product Highlighted: The MakerBot Replicator 2X Experimental 3D Printer*  
Shift into a new gear of 3D printed fun with the radio controlled car, "Truggy." Swedish designer Daniel Noree has created tiny 3D printed car parts needed for precision, durability, and moving connectivity. Noree completed the Truggy after over a year of prototyping.

- Creates a radio controlled 3D printed car experience that's durable enough for actual use and enjoyment for friends and family