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reads its terrain and makes adjustments in its movement accordingly. Jared Whelan, Matt Craft and Dave Richards created the "versatile robot" which has a sensor that scans the ground and makes adjustments with reverses and turns. The operator can also remotely select transportation modes. In one mode, the robot's tracks are raised for steep climbs. It comes with an accelerometer that evaluates the robot's position relative to gravity. When the robot detects a steep incline, it will accelerate and reconfigure to a lower center of gravity for maximum traction. Once it regains flat ground, the robot reconfig-

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involve sensing, motion, timing and/or networking elements) to elizabeth.taurasi@reedbusiness.com, along with a description of how it works and a parts' list. If your project is selected, you'll receive a \$500 check from Design News and will be featured in an upcoming issue of the magazine with your invention.

"A ROBOT WITH SMARTS"		
Amt	Part Description	Allied Part #
1	16 x 2 Character LCD — White on Black	670-1130
1	1k Ω — 1W Resistors	648-0073
1	5V Voltage Regulator	288-0529
1	12V Voltage Regulator	568-0495
1	0.1 micro F Capacitor	881-0471
1	1,000 micro F Capacitor	507-1084
2	12V Reversible dc Motors	963-0004
1	16F876A	383-0480
1	16F88	383-0496
1	Micro-size Potentiometer	754-5903
1	6V Voltage Regulator	568-0958
1	H Bridge	903-0118
2	4 MHz Oscillator	895-0677
5	9V Snap Connectors	839-0464
1	Proximity Sensor	808-1065

Additional parts required:
For a complete list of Allied and other parts for the versatile robot, go to www.designnews.com/
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For parts' information, call (800) 433-5700 or go to www.alliedelec.com/gadgetfreak

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ures to its original position.