

Issue # 280
November**J. Bachiochi: Robot Simulation (Part 2): Translating RobotBASIC****PROJECT FILES**

To download the code, go to ftp://ftp.circuitcellar.com/pub/Circuit_Cellar/2013/280

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iRobot Corp. | www.irobot.com

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Microchip Technology, Inc. | www.microchip.com

PICBASIC PRO Compiler
microEngineering Labs, Inc. | www.melabs.com

RN-42 Bluetooth module
Roving Networks, Inc. | www.rovingnetworks.com

Ed Nisley: Low-Loss Hall Effect Current Sensing**RESOURCES**

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Honeywell, Inc. |

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Maxim Integrated | www.maximintegrated.com

Wouxun KG-UV3D Hand-held amateur radio and Wouxun Li-ion battery pack

Powerwerx | www.powerwerx.com/two-way-radios/handheld-wouxun-radios/wouxun-high-capacity-lithium-battery-pack.html

SMD-to-DIP adapters

SchmartBoard | www.schmartboard.com

TS1100 Current-sense amplifier

Touchstone Semiconductor, Inc. | <http://touchstonesemi.com/products/ts1100>

Computerized Battery Analyzers

West Mountain Radio | www.westmountainradio.com**G. Novacek: Battery Basics (Part 3): Battery Management ICs****PROJECT FILES**To download the code, go to ftp://ftp.circuitcellar.com/pub/Circuit_Cellar/2013/280**REFERENCE**

[1] M. Brain, "How Lithium-ion Batteries Work," HowStuffWorks, Inc.,

<http://electronics.howstuffworks.com/everyday-tech/lithium-ion-battery2.htm>**RESOURCES**Linear Technology, Corp., "LT1510/LT1510-5 Constant-Voltage/Constant-Current Battery Charger," 1995, <http://cds.linear.com/docs/en/datasheet/1510fc.pdf>G. Novacek, "Battery Basics (Part 1): Battery Types," *Circuit Cellar* 278, 2013———, "Battery Basics (Part 2): Battery Back Up Power," *Circuit Cellar* 279, 2013

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Ayşe K. Coskun: Application-Aware Power Capping**REFERENCES**

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Watts up? | www.wattsupmeters.com

Dick Cappels: Analog Serial Communication Duplex Data and Power Over One Pair of Wires**RESOURCES**

AttoBasic BASIC interpreter, http://cappels.org/dproj/AttoBasic_Home/AttoBasic_Home.html

Maxim Integrated, 1-Wire Tutorial, www.maximintegrated.com/products/1-wire/flash/overview/index.cfm

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Atmel Corp. | www.atmel.com

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David Cass Tyler: Calibration (Part 1): Linear ADCs and DACs**PROJECT FILES**

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SOURCE

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Graig Pearen: Solar Array Tracker (Part 2): SunSeeker Software and Installation

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