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CREATING
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Making Android Accessories with IOIO

Going Mobile with Sensors, Lights,
Motors, and Robots

Simon Monk



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Make: Action Simon Monk, 2016 Beginning with the basics and moving gradually to greater challenges this book takes you step by step through experiments and projects that show you how to make your Arduino or Raspberry Pi create and control movement light and sound In other words action The Arduino is a simple microcontroller with an easy to learn programming environment while the Raspberry Pi is a tiny Linux based computer This book clearly explains the differences between the Arduino and Raspberry Pi when to use them and to which purposes each are best suited Using these widely available and inexpensive platforms you ll learn to control LEDs motors of various types solenoids AC alternating current devices heaters coolers displays and sound You ll even discover how to monitor and control these devices over the Internet Working with solderless breadboards you ll get up and running quickly learning how to make projects that are as fun as they are informative In *Make Action* you ll learn to Build a can crusher using a linear actuator with your Arduino Have an Arduino water your plants Build a personal traffic signal using LEDs Make a random balloon popper with Arduino Cool down your beverages with a thermostatic drink cooler you build yourself Understand and use the PID control algorithm Use Raspberry Pi to create a puppet dance party that moves to your tweets

Getting Started with the Photon Simon Monk, 2015-05-14 The Photon is an open source inexpensive programmable WiFi enabled module for building connected projects and prototypes Powered by an ARM Cortex M3 microcontroller and a Broadcom WiFi chip the Photon is just as happy plugged into a hobbyist s breadboard as it is into a product rolling off of an assembly line While the Photon and its accompanying cloud platform is designed as a ready to go foundation for product developers and manufacturers it s great for Maker projects as you ll see in this book You ll learn how to get started with the free development tools deploy your sketches over WiFi and build electronic projects that take advantage of the Photon s processing power cloud platform and input output pins What s more the Photon is backward compatible with its predecessor the Spark Core

Arduino + Android Projects for the Evil

Genius: Control Arduino with Your Smartphone or Tablet Simon Monk, 2011-11-15 TEAM ARDUINO UP WITH ANDROID FOR SOME MISCHIEVOUS FUN Filled with practical do it yourself gadgets Arduino Android Projects for the Evil Genius shows you how to create Arduino devices and control them with Android smartphones and tablets Easy to find equipment and components are used for all the projects in the book This wickedly inventive guide covers the Android Open Application Development Kit ADK and USB interface and explains how to use them with the basic Arduino platform Methods of communication between Android and Arduino that don't require the ADK including sound Bluetooth and WiFi Ethernet are also discussed An Arduino ADK programming tutorial helps you get started right away Arduino Android Projects for the Evil Genius Contains step by step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying principles behind the projects Removes the frustration factor all required parts are listed Provides all source code on the book's website Build these and other devious devices Bluetooth robot Android Geiger counter Android controlled light show TV remote Temperature logger Ultrasonic range finder Home automation controller Remote power and lighting control Smart thermostat RFID door lock Signaling flags Delay timer

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