



Arduino Starter Guide

Erik Savasgard



Arduino Starter Guide:

Arduino: A Quick-Start Guide Maik Schmidt, 2015-01-20 Arduino is an open source platform that makes DIY electronics projects easier than ever. Gone are the days when you had to learn electronics theory and arcane programming languages before you could even get an LED to blink. Now with this new edition of the bestselling *Arduino A Quick Start Guide* readers with no electronics experience can create their first gadgets quickly. This book is up to date for the new Arduino Zero board with step by step instructions for building a universal remote, a motion sensing game controller and many other fun useful projects. This Quick Start Guide is packed with fun useful devices to create with step by step instructions and photos throughout. You will learn how to connect your Arduino to the Internet and program both client and server applications. You will build projects such as your own motion sensing game controller with a three axis accelerometer, create a universal remote with an Arduino and a few cheap parts, build your own burglar alarm that emails you whenever someone is moving in your living room, build binary dice and learn how to solder. In one of several new projects in this edition you will create your own video game console that you can connect to your TV set. This book is completely updated for the new Arduino Zero board and the latest advances in supporting software and tools for the Arduino. Sidebars throughout the book point you to exciting real world projects using the Arduino. Exercises extend your skills and What If It Doesn't Work sections help you troubleshoot common problems. With this book beginners can quickly join the worldwide community of hobbyists and professionals who use the Arduino to prototype and develop fun useful inventions. What You Need This is the full list of all parts you need for all projects in the book. Some of these are provided as part of various kits that are available on the web or you can purchase individually. Sources include adafruit.com, makershed.com, radioshack.com, sparkfun.com and mouser.com. Please note we do not support or endorse any of these vendors but we list them here as a convenience for you. Arduino Zero or Uno or Duemilanove or Diecimila board, USB cable, Half size breadboard, Pack of LEDs at least 3, 10 or more is a good idea, Pack of 100 ohm, 10k ohm and 1k ohm resistors, Four pushbuttons, Breadboard, jumper wire, connector wire, Parallax Ping sensor, Passive Infrared sensor, An infrared LED, A 5V servo motor, Analog Devices TMP36 temperature sensor, ADXL335 accelerometer breakout board, 6 pin 0-1 standard header might be included with the ADXL335, Nintendo Nunchuk Controller, Arduino Ethernet shield, Arduino Proto shield and a tiny breadboard optional but recommended, Piezo speaker/buzzer optional, Tilt sensor optional, A 25-30 Watts soldering iron with a tip preferably 1-16, A soldering stand and a sponge, A standard 60-40 solder rosin core spool for electronics work.

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