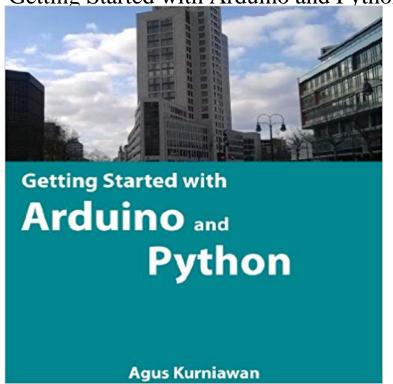
Getting Started with Arduino and Python



Finding the power of Python for Arduino programming. This book helps you to explore several Python libraries to access Arduino boards. **TOC** 1. Preparing Development Environment 1.1 Arduino 1.1.1 Arduino Uno 1.1.2 Arduino Leonardo 1.1.3 Arduino Mega 2560 1.1.4 Arduino Due 1.2 Electronic Components 1.2.1 Arduino Starter Kit 1.2.2 Fritzing 1.2.3 Cooking-Hacks: Arduino Starter Kit 1.2.4 Arduino Sidekick Basic kit 1.3 Python 1.4 Arduino Software 1.5 Testing 2. Hello World 2.1 Arduino World 2.1.1 Arduino Hardware Driver on Windows 8/8.1 2.1.2 Simple Testing 2.2 Arduino and Python 2.3 Testing Serial Port using Python 2.4 Testing for Arduino and Python 3. Exploring Python Libraries for Arduino 3.1 Python Arduino Prototyping API v2 3.2 Python Firmata 3.3 pyFirmata 4. Analog Sensor 4.1 Sensor Devices 4.2 Reading Sensor 4.3 Running Program 5. RGB LED 5.1 RGB LED 5.1.1 Arduino Analog output (PWM) 5.1.2 Controlling RGB LED Color 5.2 Arduino Implementation 5.3 Python Implementation

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