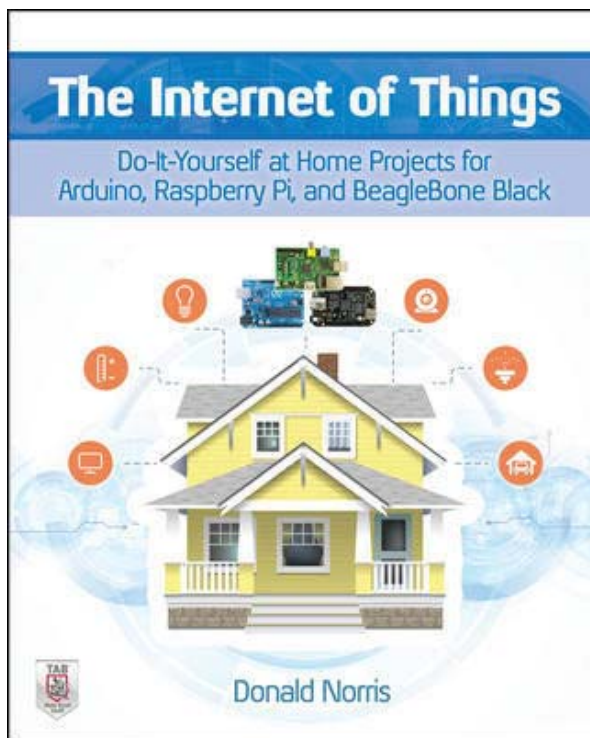




The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black



- **Authors:** Donald Norris
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Description

Tap into the Internet of Things (IoT) with innovative projects!

The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi, and BeagleBone Black gets you started working with the most popular processing platforms and wireless communication technologies to connect devices and systems to the Internet using sensors. You'll learn the basics of object-oriented programming and relational databases so you can complete your projects with ease.

Each project features a list of required tools and components, how-to explanations with photos and illustrations, and complete programming code. Take advantage of the power and versatility of the IoT with help from this practical, easy-to-follow guide.

Inventive DIY projects include:

- Home temperature monitoring system
- Raspberry Pi home weather station
- Webcam and Raspberry Pi camera
- Internet-enabled, Arduino-powered garage door opener
- Arduino irrigation control system
- Arduino lighting controller
- BeagleBone Black message controller
- BeagleBone Black temperature sensor with cloud service
- Machine-to-Machine communications

Software downloads for the book are available at www.mhprofessional.com/iot

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- Ch 1: Introduction
- Ch 2: Raspberry Pi Home Temperature Measurements
- Ch 3: Introduction to Object Orientation Programming (OOP) with Java
- Ch 4: Raspberry Pi Surveillance Webcams
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- Ch 6: Arduino Garage Door Controller
- Ch 7: Arduino Irrigation Controller
- Ch 8: Arduino Outdoor Lighting Controller
- Ch 9: Beaglebone Message Controller
- Ch 10: BeagleBone Black with Cloud Service
- Ch 11: Machine-to-Machine Demonstration Project

Additional Information

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