



Internet of Things with the Arduino Yún

By Marco Schwartz

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Internet of Things with the Arduino Yún By Marco Schwartz

Projects to help you build a world of smarter things

About This Book

- Learn how to interface various sensors and actuators to the Arduino Yún and send this data in the cloud
- Explore the possibilities offered by the Internet of Things by using the Arduino Yún to upload measurements to Google Docs, upload pictures to Dropbox, and send live video streams to YouTube
- Learn how to use the Arduino Yún as the brain of a robot that can be completely controlled via Wi-Fi

Who This Book Is For

This book is intended for people who already have some experience with the Arduino platform and who want to build more exciting applications, in particular to Internet of Things. You will need to have some basic experience in electronics, Arduino, and programming in general to follow the projects created in the book.

What You Will Learn

- Connect various sensors to the Arduino Yún
- Send sensor measurements to Google Docs via Temboo
- Interface the Arduino Yún to Twitter via Temboo

- Create automated e-mail alerts based on measured data
- Use the Arduino Yún to control home appliances such as lamps
- Measure energy consumption using the Yún
- Take pictures with a USB camera and upload them to Dropbox
- Build robots and control them remotely via Wi-Fi

In Detail

Internet of Things (IoT) is currently a growing trend in the technology space, and the Arduino Yún is the perfect board to get started with building IoT projects. This book covers many of the powerful features of the Arduino Yún via four exciting projects. The first project is all about sending weather measurements data to a Google Docs spreadsheet for easy online visualization. The second one is about building an energy consumption meter and controlling devices remotely. The third focuses on the field of security, by helping you to build a camera that is triggered by motion and that uploads pictures automatically to Dropbox. Finally, the last project is in relation with the field of robotics, and focuses on building a robot that is controlled via Wi-Fi.

The main focus of this book is to teach everything you need to know to build complex projects using the Arduino Yún, organized around the fields of home automation, security, and robotics.

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Editorial Review

About the Author

Marco Schwartz

Marco Schwartz is an electrical engineer, entrepreneur, and blogger. He has a master's degree in Electrical Engineering and Computer Science from Supélec in France, and a master's degree in Micro Engineering from the EPFL in Switzerland. Marco has more than five years of experience in the domain of electrical engineering. His interests gravitate around electronics, home automation, the Arduino and Raspberry Pi platforms, open source hardware projects, and 3D printing.

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