Mastering the Internet of Things: Sensors, Protocols, Devices, and Data

Kyle Roche, Tim Kellogg, John Rotach

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Mastering the Internet of Things will show you how to make the most of the full IoT stack using popular platforms like Arduino, Raspberry Pi, and even Google Glass.

First you'll learn about the different platform offerings and how they compare, including price and features so you can choose the best one for your project. Then you'll learn all about how to read and transmit sensor data using a variety of IoT-focused protocols and how to keep that data secure. Next, a tour of boards and development kits, with demo projects for every platform: Arduino, Raspberry Pi, Beagle Board, and Google Glass. You'll even learn how to get those different boards, devices, and protocols to work together.

Finally, you'll learn how to visualize the IoT sensor data you've collected on both the web and on mobile devices with particular focus on Android. You'll even learn how to convert wi-fi demos to 2G on Arduino.

The Internet of Things is a hugely important change in technology and this book may help you get in on the ground floor. An explosion of devices are expected to communicate with each other in the coming years. But there are so many choices of boards and protocols that it can be difficult to make sense of it all and find practical examples of how to make it all work. With *Mastering the Internet of Things*, you'll learn how to get up and running on the most popular open source development kits for the Internet of Things.

What you'll learn

- A tour of public IoT platforms and features of each of these
- How to securely implement IoT
- How to work with platforms like Arduino, Raspberry Pi, and Beagle Board
- How to integrate IoT with Google Glass
- How to create IoT wearables with Lily Pad Arduino
- How to visualize IoT data on the web and on mobile devices

Who this book is for

Makers, tinkerers, enterprise developers, and mobile developers who want to make the most of the Internet of Things using practical demos and real-world information.

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