Internet of Things with ESP8266

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Key Features

- Get to know the powerful and low cost ESP8266 and build interesting projects in the field of Internet of Things
- Configure your ESP8266 to the cloud and explore the networkable modules that will be utilized in the IoT projects
- This step-by-step guide teaches you the basics of IoT with ESP8266 and makes your life easier

Book Description

The Internet of Things (IoT) is the network of objects such as physical things embedded with electronics, software, sensors, and connectivity, enabling data exchange. ESP8266 is a low cost WiFi microcontroller chip that has the ability to empower IoT and helps the exchange of information among various connected objects. ESP8266 consists of networkable microcontroller modules, and with this low cost chip, IoT is booming. This book will help deepen your knowledge of the ESP8266 WiFi chip platform and get you building exciting projects.

Kick-starting with an introduction to the ESP8266 chip, we will demonstrate how to build a simple LED using the ESP8266. You will then learn how to read, send, and monitor data from the cloud. Next, you'll see how to control your devices remotely from anywhere in the world. Furthermore, you'll get to know how to use the ESP8266 to interact with web services such as Twitter and Facebook. In order to make several ESP8266s interact and exchange data without the need for human intervention, you will be introduced to the concept of machine-to-machine communication.

The latter part of the book focuses more on projects, including a door lock controlled from the cloud, building a physical Bitcoin ticker, and doing wireless gardening. You'll learn how to build a cloud-based ESP8266 home automation system and a cloud-controlled ESP8266 robot. Finally, you'll discover how to build your own cloud platform to control ESP8266 devices.

With this book, you will be able to create and program Internet of Things projects using the ESP8266 WiFi chip.

What you will learn

- Control various devices from the cloud
- Interact with web services, such as Twitter or Facebook
- Make two ESP8266 boards communicate with each other via the cloud
- Send notifications to users of the ESP8266, via email, text message, or push notifications
- Build a physical device that indicates the current price of Bitcoin
- Build a simple home automation system that can be controlled from the cloud
- Create your own cloud platform to control ESP8266 devices

About the Author

Marco Schwartz is an electrical engineer, an entrepreneur, and a blogger. He has a master's degree in electrical engineering and computer science from Supélec, France, and a master's degree in micro engineering from the Ecole Polytechnique Fédérale de Lausanne (EPFL) in Switzerland.

He has more than five years of experience working in the domain of electrical engineering. Marco's interests gravitate around electronics, home automation, the Arduino and Raspberry Pi platforms, open source hardware projects, and 3D printing.

He has several websites about Arduino, including an open home automation website that is dedicated to building home automation systems using open source hardware.

Marco has written another book on home automation and Arduino, called Home Automation With Arduino: Automate Your Home Using Open-source Hardware. He has also written a book on how to build Internet of Things projects with Arduino, called Internet of Things with the Arduino Yun, Packt Publishing.

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