



Internet of Things with ESP8266

By Marco Schwartz

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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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Editorial Review

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Users Review

From reader reviews:

Jessica Peacock:

Exactly why? Because this Internet of Things with ESP8266 is an unordinary book that the inside of the publication waiting for you to snap the item but latter it will surprise you with the secret this inside. Reading this book beside it was fantastic author who else write the book in such wonderful way makes the content on the inside easier to understand, entertaining technique but still convey the meaning completely. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This amazing book will give you a lot of positive aspects than the other book include such as help improving your skill and your critical thinking approach. So , still want to hold off having that book? If I ended up you I will go to the reserve store hurriedly.

Eric Baur:

Internet of Things with ESP8266 can be one of your beginning books that are good idea. Many of us recommend that straight away because this publication has good vocabulary that can increase your knowledge in language, easy to understand, bit entertaining but delivering the information. The copy writer giving his/her effort to set every word into enjoyment arrangement in writing Internet of Things with ESP8266 however doesn't forget the main level, giving the reader the hottest and based confirm resource info that maybe you can be one of it. This great information may drawn you into new stage of crucial contemplating.

Jack Caldwell:

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