



Learning IoT with Particle Photon and Electron

By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan

Download now

Read Online 

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan

Develop applications on one of the most popular platforms for IoT using Particle Photon and Electron with this fast-paced guide

About This Book

- Get an introduction to IoT architecture, command-line build tools and applications of IoT devices and sensors
- Design and develop connected IoT applications using Particle Photon and Electron in a step-by-step manner, gaining an entry point into the field of IoT
- Get tips on troubleshooting IoT applications

Who This Book Is For

This book is for developers, IoT enthusiasts and hobbyists who want to enhance their knowledge of IoT machine-to-machine architecture using Particle Photon and Electron, and implement cloud-based IoT projects.

What You Will Learn

- Setup the Particle Photon and Electron on the cloud using the command-line tools
- Build and deploy applications on the Photon and Electron using the Web-based IDE
- Setup a local cloud server to interact with Particle Photon and Electron
- Connect various components and sensors to Particle Photon and Electron
- Tinker with the existing firmware and deploy a custom firmware on the Photon and Electron
- Setup communication between two or more Particle Photon and Electron
- Debug and troubleshoot Particle Photon and Electron projects
- Use webhooks to communicate with various third-party server applications

In Detail

IoT is basically the network of physical devices, vehicles, buildings and other items—embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data.. The number of connected devices is growing rapidly and will continue to do so over years to come. By 2020, there will be more than 20 billion connected devices and the ability to program such devices will be in high demand. Particle provides prototyping boards for IoT that are easy to program and deploy. Most importantly, the boards provided by Particle can be connected to the Internet very easily as they include Wi-Fi or a GSM module.

Starting with the basics of programming Particle Photon and Electron, this book will take you through setting up your local servers and running custom firmware, to using the Photon and Electron to program autonomous cars. This book also covers in brief a basic architecture and design of IoT applications. It gives you an overview of the IoT stack. You will also get information on how to debug and troubleshoot Particle Photon and Electron and set up your own debugging framework for any IoT board. Finally, you'll tinker with the firmware of the Photon and Electron by modifying the existing firmware and deploying them to your boards.

By the end of this book, you should have a fairly good understanding of the IoT ecosystem and you should be able to build standalone projects using your own local server or the Particle Cloud Server.

 [Download Learning IoT with Particle Photon and Electron ...pdf](#)

 [Read Online Learning IoT with Particle Photon and Electron ...pdf](#)

Learning IoT with Particle Photon and Electron

By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan

Develop applications on one of the most popular platforms for IoT using Particle Photon and Electron with this fast-paced guide

About This Book

- Get an introduction to IoT architecture, command-line build tools and applications of IoT devices and sensors
- Design and develop connected IoT applications using Particle Photon and Electron in a step-by-step manner, gaining an entry point into the field of IoT
- Get tips on troubleshooting IoT applications

Who This Book Is For

This book is for developers, IoT enthusiasts and hobbyists who want to enhance their knowledge of IoT machine-to-machine architecture using Particle Photon and Electron, and implement cloud-based IoT projects.

What You Will Learn

- Setup the Particle Photon and Electron on the cloud using the command-line tools
- Build and deploy applications on the Photon and Electron using the Web-based IDE
- Setup a local cloud server to interact with Particle Photon and Electron
- Connect various components and sensors to Particle Photon and Electron
- Tinker with the existing firmware and deploy a custom firmware on the Photon and Electron
- Setup communication between two or more Particle Photon and Electron
- Debug and troubleshoot Particle Photon and Electron projects
- Use webhooks to communicate with various third-party server applications

In Detail

IoT is basically the network of physical devices, vehicles, buildings and other items—embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data.. The number of connected devices is growing rapidly and will continue to do so over years to come. By 2020, there will be more than 20 billion connected devices and the ability to program such devices will be in high demand. Particle provides prototyping boards for IoT that are easy to program and deploy. Most importantly, the boards provided by Particle can be connected to the Internet very easily as they include Wi-Fi or a GSM module.

Starting with the basics of programming Particle Photon and Electron, this book will take you through setting up your local servers and running custom firmware, to using the Photon and Electron to program autonomous cars. This book also covers in brief a basic architecture and design of IoT applications. It gives

you an overview of the IoT stack. You will also get information on how to debug and troubleshoot Particle Photon and Electron and set up your own debugging framework for any IoT board. Finally, you'll tinker with the firmware of the Photon and Electron by modifying the existing firmware and deploying them to your boards.

By the end of this book, you should have a fairly good understanding of the IoT ecosystem and you should be able to build standalone projects using your own local server or the Particle Cloud Server.

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan Bibliography

- Rank: #1337752 in eBooks
- Published on: 2016-09-12
- Released on: 2016-09-12
- Format: Kindle eBook

 [Download Learning IoT with Particle Photon and Electron ...pdf](#)

 [Read Online Learning IoT with Particle Photon and Electron ...pdf](#)

Download and Read Free Online Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan

Editorial Review

About the Author

Rashid Khan Rashid Khan is a programmer living in Bangalore. He is one of the founders of Yellow Messenger, a company that specializes in building bots for commerce. Prior to founding Yellow Messenger, he worked at EdgeVerve Systems, where he built backend systems to support IoT devices. He is an open source enthusiast and loves to experiment with new technologies. He is involved with a number of open source organizations, such as GNOME, Mono, Tomboy Notes, and Banshee and has built a Django (Python) library for Apache Spark called Django-LibSpark. His interests lie in the field of Artificial Intelligence and interfacing software with real-world objects. Apart from programming, he loves to cycle and play tennis.

Kajari Ghoshdastidar Kajari Ghoshdastidar got her PhD in wireless sensor networks in 2009 and has been active in IoT-related hobby project work since then. She has worked in the software industry for the last 6 years as a technology architect, software developer, and a computer scientist. She is a technology geek, takes part in hackathons, and is always exploring new technologies and electronic gadgets. She is currently part of the systems engineering team at EdgeVerve, working as a computer scientist.

Ajith Vasudevan Ajith Vasudevan is an electronics, computer, and IoT enthusiast who likes to apply his knowledge in these fields to make modern living easy for himself and others around him. He has a bachelor's of technology degree in electrical and electronics engineering. He was interested in automation and IoT even before the term IoT became commonplace. He designed and built an automatic overhead-tank motor operator using \$1 worth of electronic parts back in 1995, which is operating at his parent s home to this day. He has automated and made it simple and efficient to operate many household appliances, for example, an automatic geyser switch that turns itself off after 10 minutes, saving electricity. It can be set to switch on at any specified time or can be controlled from anywhere. Today, even his friends and neighbors use this system. Ajith has worked in the heavy electrical industry before joining his current employer, Infosys Technologies Limited, in the year 2000. He is presently a senior computer scientist at EdgeVerve Systems, a subsidiary of Infosys. At work, he enjoys programming and has done so for over a decade and a half.

Users Review

From reader reviews:

Robert Music:

As people who live in often the modest era should be up-date about what going on or facts even knowledge to make these individuals keep up with the era that is always change and advance. Some of you maybe will probably update themselves by examining books. It is a good choice to suit your needs but the problems coming to anyone is you don't know which you should start with. This Learning IoT with Particle Photon and Electron is our recommendation to help you keep up with the world. Why, as this book serves what you want and want in this era.

Stephen Stovall:

A lot of people always spent their own free time to vacation or go to the outside with them family or their

friend. Do you realize? Many a lot of people spent their free time just watching TV, or maybe playing video games all day long. If you need to try to find a new activity honestly, that is look different you can read some sort of book. It is really fun in your case. If you enjoy the book which you read you can spend the entire day to reading a reserve. The book Learning IoT with Particle Photon and Electron it is very good to read. There are a lot of people who recommended this book. These folks were enjoying reading this book. If you did not have enough space bringing this book you can buy the particular e-book. You can more very easily to read this book out of your smart phone. The price is not to cover but this book provides high quality.

Irene Howe:

Many people spending their period by playing outside having friends, fun activity using family or just watching TV 24 hours a day. You can have new activity to enjoy your whole day by examining a book. Ugh, do you consider reading a book really can hard because you have to bring the book everywhere? It okay you can have the e-book, having everywhere you want in your Cell phone. Like Learning IoT with Particle Photon and Electron which is obtaining the e-book version. So , try out this book? Let's notice.

Sallie Farris:

You can find this Learning IoT with Particle Photon and Electron by look at the bookstore or Mall. Just simply viewing or reviewing it may to be your solve challenge if you get difficulties to your knowledge. Kinds of this reserve are various. Not only simply by written or printed but in addition can you enjoy this book through e-book. In the modern era just like now, you just looking by your local mobile phone and searching what your problem. Right now, choose your ways to get more information about your book. It is most important to arrange yourself to make your knowledge are still change. Let's try to choose proper ways for you.

Download and Read Online Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan #BI79V8JH5P1

Read Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan for online ebook

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan books to read online.

Online Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan ebook PDF download

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan Doc

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan Mobipocket

Learning IoT with Particle Photon and Electron By Rashid Khan, Kajari Ghoshdastidar, Ajith Vasudevan EPub