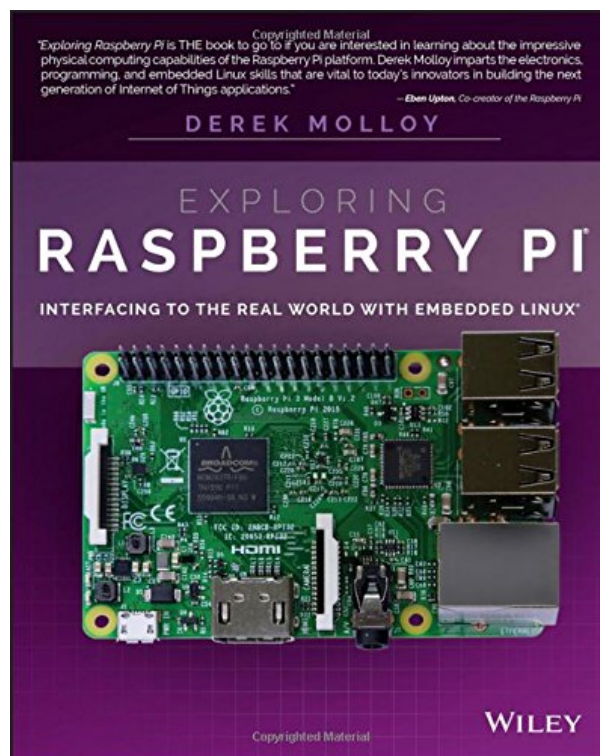


# EXPLORING RASPBERRY PI: INTERFACING TO THE REAL WORLD WITH EMBEDDED LINUX BY DEREK MOLLOY



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"Exploring Raspberry Pi is THE book to go to if you are interested in learning about the impressive physical computing capabilities of the Raspberry Pi platform. Derek Molloy imparts the electronics, programming, and embedded Linux skills that are vital to today's innovators in building the next generation of Internet of Things applications."

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## Review

"...this is a book worth having on your shelf." (I programmer, August 2016)

## From the Back Cover

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Exploring Raspberry Pi first covers the basics of the hardware platform, recommended accessories, software, embedded Linux systems, and Linux programming techniques. Then it takes you deeper into interfacing, controlling, and communicating, with detailed information about Raspberry Pi GPIOs, buses, UART devices, and USB peripherals. You will learn to configure a cross-compilation environment in order to build large-scale software applications, as well as how to combine hardware and software to enable the Raspberry Pi to interact effectively with its physical environment. Finally, you'll discover how to use the Raspberry Pi for advanced interfacing and interaction applications such as the Internet of Things (IoT); wireless communication and control; rich user interfaces; images, video, and audio; and Linux kernel programming.

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#### About the Author

DR. DEREK MOLLOY is a senior lecturer at the School of Electronic Engineering, Faculty of Engineering and Computing, Dublin City University, Ireland. He is also the author of the hugely popular book on the BeagleBone platform titled Exploring BeagleBone, also published by Wiley. His popular YouTube video series has introduced millions of people to embedded Linux and digital electronics topics. He has received several awards for teaching and learning, including the 2012 Irish Learning Technology Association (ILTA) national award for Innovation in Teaching and Learning. The same year, he was also awarded the Dublin City University President's Award for Excellence in Teaching and Learning.

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Expand Raspberry Pi capabilities with fundamental engineering principles

Exploring Raspberry Pi is the innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project.

The Raspberry Pi's most famous feature is its adaptability. It can be used for thousands of electronic applications, and using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project.

- Develop the Linux and programming skills you need to build basic applications
- Build your inventory of parts so you can always "make it work"
- Understand interfacing, controlling, and communicating with almost any component
- Explore advanced applications with video, audio, real-world interactions, and more

Be free to adapt and create with Exploring Raspberry Pi.

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The KINDLE edition

By A. Bergamini

This review is about the Kindle edition not the paper one. I agree the the traditional paper book deserves the 5 star rating. I purchased the book first and I liked it so much that I bought the Kindle edition to highlight, make notes in, and to keep as a handy screen based reference for my Pi based electronics projects.

The Kindle edition's a disappointment. Here's why.

1. The book has a great table of contents with a 3 level outline; chapters, sub headings under each chapter and sub topics under each sub heading. The Kindle edition only has a 2 level outline, no sub topics, making it extremely cumbersome, if not useless, as a navigation tool.
2. The Kindle edition left out the index. Really, no index, and no, the global word search is not the same as a good index created and edited by a professional indexer.

So minimal table of contents and no index makes the Kindle edition pretty useless as a convenient reference. If you don't believe me, try to find the topic section on Transistors using the Kindle edition. I'm sure you can eventually, but it's a PITA.

By the way, I think it's sad that my one star review brings down the rating of the paper edition. Amazon, I should be able to review the Kindle edition separately from the paper edition. Especially if they are substantially different.

15 of 16 people found the following review helpful.

Best single all-around book on RPi

By Strictly Amateur

If you're going to be stranded on a desert island with nothing but a Raspberry Pi, some interfacing projects and a single book of your choosing, this is the book to choose! Introductory/Getting Started material on Linux, Raspbian, basic electronics, Pi hardware, implementation languages and interfacing. The latter is particularly important given the rather delicate nature of the RPi GPIO. Includes a performance comparison of the various languages which, alone, would justify the purchase price.

Read it like an Intro; Keep it as a Reference.

4 of 4 people found the following review helpful.

An excellent book for anyone who is willing to put in the effort required to learn the RPi.

By BobWet

This book covers a lot of area but be prepared to work hard if you read it. The examples are available for download on Github. The book is absolutely excellent. Clearly written with a great amount of detail, though the reader must realize there is a limit to how much info can be packed in a single book. Although beginners could read this book, I believe that it would be slow going for them. If you don't have some technical background I would suggest you look for a more basic book. This book covers topics such as RPi boot up sequence, Linux commands, hardware interfacing and useful projects. I'm an EE with programming experience in Windows and I found the Linux section easy to understand, but very slow going, due to the vastness of Linux. I highly recommend this book to anyone interested in putting in the effort required to really learn the RPi and how to interface to other computers.

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