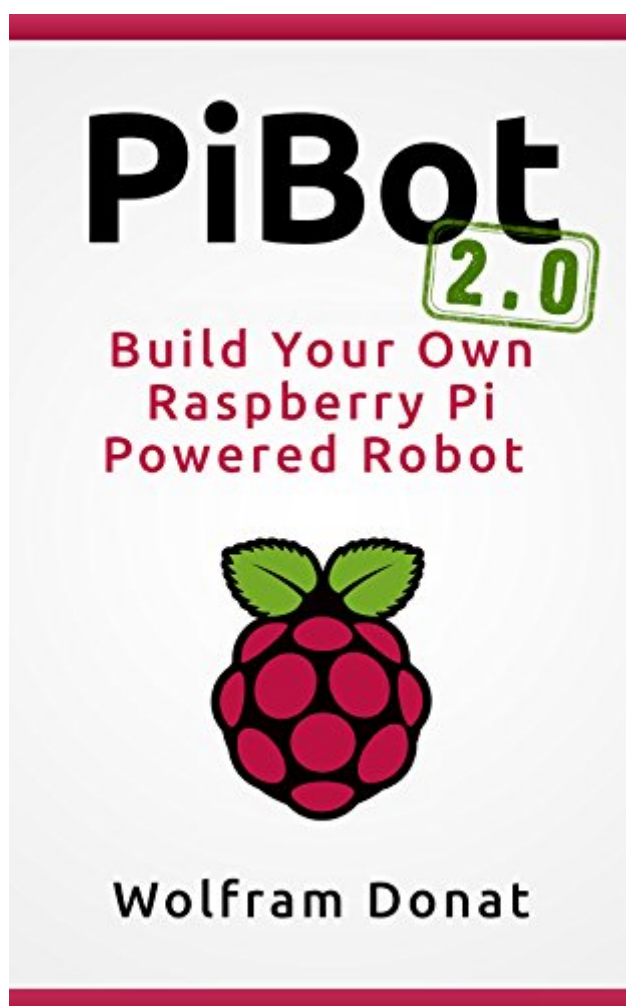


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PiBot: Build Your Own Raspberry Pi Powered Robot 2.0 - Revised And Updated



Synopsis

The bestselling paperback is now available for the Kindle! Since the Raspberry Pi was released in 2012, it has changed the game for both professionals and hobbyists alike. Its small size (about the size of a credit card) and low price have made it a popular alternative to the Arduino microprocessor for projects ranging from home automation to web servers to mobile image processing. Its ARM processor allows it to run a version of Debian Linux, and it can be configured to work with the physical world via onboard GPIO pins and optional extra equipment. This book is not a collection of projects for the Pi. Rather, it takes one project - a small mobile robot - and takes you step-by-step through the process of building one, from installing the libraries needed to access the GPIO pins to configuring a wireless adapter to some suggestions (not explicit instructions) on how to construct the bot's body. When you have finished, you will have a working robot that you can log into and control remotely via command line, with the possibility of using a shell or a Python script. Complete with full-color photographs (though not necessary, for those reading on an e-ink Kindle) and a collection of resources about where to buy/download/obtain the necessary ingredients, the author also offers free support for those with questions or problems building their bot. For anyone who has wanted to do something a little more impressive with their Pi, this book is a must-have! NEW - Companion course on Udemy: The PiBot course on Udemy (<http://www.udemy.com/raspberry-pi-pibot>) is now active as well. Included in the purchase of this book is a promotional coupon for a discount on the course. For those that would like a more structured, lecture-based approach to building their bot, it's the perfect add-on to the book! Newly revised and updated! The best-selling book on building a robot with your Raspberry Pi is now even better, including bug fixes, revisions, and code changes for the new Raspberry Pi version 2!

Book Information

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Customer Reviews

I would like to clarify one thing. This is not just a book, this is the manual for your very first robot. The author takes you on a step by step walk through of the making of your robot and was kind enough to remove the guess work for you. Highly recommend this book for anyone who has never touched a raspberry pi and is interested in robotics...you're going to want the basics that this book gives you. And if there's something you don't understand or doesn't work for you...feel free to email the author like I did and receive timely help(now how's that for support xD).

I have been interested in getting into building a Raspberry Pi project for some time as I've heard a lot about it, and thought building a robot would be the most fun entry into a hobby like this. I'm glad I picked up Wolfram Donat's PiBot book - it shows clearly everything I need to buy, which turned out not to be that expensive - and am building my first hobby bot with my 7 year old son. The programming itself is laid out pretty clearly and it's easy to follow using this book. Everything is explained well enough too that I'm thinking of ideas for my next 'bot also! I highly recommend this book if you like fun geek projects, or want to get your kids into robot building as a hobby and learning device.

Was mainly interested in the book for the interfacing information. It is a simple, short book, well illustrated, and some good information, although nothing in depth. It is adequate for beginners with Pi to start interfacing and developing a robotics or other automated platform

This book is easy to follow and I think anyone who reads it will be able to build a basic robot using a Raspberry Pi. It's a good beginner book for someone who has a Pi and wants help with

setting it up, and is interested in building their first robot. However, I feel this book is only suitable for beginners. It doesn't give the reader much help with regards to further exploration beyond this book, and the robot built is very simple. (It doesn't have any sensors.) I would have liked to see an exploration of sensor processing using GPIO, and a robot that can navigate autonomously using some sort of sensors.

This book is not detailed education material for serious robotics enthusiasts. But it can fast track you into robotics using the Raspberry Pi. If you are a 10 year old or a young teen who is into programming since an early age, then this book is for you. I would not give negative reviews because the intent of this book is not to make you a robotics guru. Therefore, do not miss the point if you decide to buy it.

Not what I expected. I had expected there would be more details about building your own Pi-based robot. Very light on details. There is useful information though. Price reflects information contained therein. This book is a real high level overview but does contain some useful information about sourcing parts, specifically different types of motors for locomotion. There is some light simple code as well.

Unlike other technical books where e-readers slaughter the code and LaTeX math formulas, the rendering of this short little "how to" book on Kindle is excellent. The line spacing is not as critical in Linux as in Python or Java either, so you can use code right out of Kindle and the numerous support websites listed by the author. I'm a roboticist so had even more fun with this, but frankly it also is a great general intro to the Pi because of the significant number of bib items that are very valuable for many other projects from security to multimedia. For \$7 US on Kindle, a great little buy for both Pi enthusiasts and those wanting to get into their first little droid. Highly Recommended.

With detailed codes. It's a really good instruction for building a simple robot that controlled by Raspberry Pi. And the resources that the book supplies are quite useful.

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