



BeagleBone For Dummies

By Rui Santos, Luís Miguel Costa Perestrelo

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The definitive, easy-to-use guide to the popular BeagleBone board

BeagleBone For Dummies is the definitive beginner's guide to using the popular BeagleBone board to learn electronics and programming. Unlike other books that require previous knowledge of electronics, Linux, and Python, this one assumes you know nothing at all, and guides you step-by-step throughout the process of getting acquainted with your BeagleBone Original or BeagleBone Black. You'll learn how to get set up, use the software, build the hardware, and code your projects, with plenty of examples to walk you through the process. You'll move carefully through your first BeagleBone project, then get ideas for branching out from there to create even better, more advanced programs.

The BeagleBone is a tiny computer board – about the size of a credit card – that has all the capability of a desktop. Its affordability and ease of use has made it popular among hobbyists, hardware enthusiasts, and programmers alike, and it's time for you to join their ranks as you officially dive into the world of microcomputers. This book removes the guesswork from using the popular BeagleBone board and shows you how to get up and running in no time.

- Download the operating system and connect your BeagleBone
- Learn to navigate the desktop environment
- Start programming with Python and Bonescript
- Build your first project, and find plans for many more

To learn BeagleBone, you could spend hours on the Internet and still never find the information you need, or you can get everything you need here. This book appeals to all new and inexperienced hobbyists, tinkerers, electronics gurus, hackers, budding programmers, engineers, and hardware geeks who want to learn how to get the most out of their powerful BeagleBone.

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Editorial Review

From the Back Cover

Learn to:

- Connect the BeagleBone and install the Linux® OS
- Explore the Cloud 9 IDE and learn simple programming with BoneScript and Python®
- Create electronics projects connected to the BeagleBone GPIO
- Set up a home automation web server with the BeagleBone

Grab your BeagleBone, get it set up, and start building cool projects!

The BeagleBone is a powerful, versatile development board. This book is a powerful yet friendly guide to putting the BeagleBone to work, so you can turn your ideas into real projects. You'll discover how to connect to the BeagleBone, load Linux on it, and program in it, building and programming circuits to actually create things as you go.

- Start at the beginning — discover what the BeagleBone can do, how to download and install Linux on it, and how to connect it to your computer
- Down Linux lane — learn your way around the Linux Shell and find out about the tools and components you need for circuit-building
- Connected to the BoneScript — master the JavaScript-based programming language for BeagleBone and create a motion-detecting circuit
- Prepare for web-related projects — get acquainted with Python and build projects that read data from sensors and automatically send email
- Basic Black — find out how to turn BeagleBone Black into a desktop computer and launch your own website
- Playing with bones — create an email notification device and your own home automation web server

Open the book and find:

- Step-by-step guidance to setting up a BeagleBone
- A crash course in Linux
- Amazing things the BeagleBone can do
- How to navigate the desktop environment
- Python programming instructions
- Directions for a household monitoring system
- Great ideas for BeagleBone projects
- Resources and tips for making the most of the BeagleBone

About the Author

Rui Santos is a popular electronics blogger known for his expert online video tutorials and articles. His blog receives an average of 72,000 visitors per month. **Luís Perestrelo** is an electronics aficionado who works with digital systems for autonomous underwater vehicles and sailboats.

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From reader reviews:

Jeffrey Brill:

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