

Raspberry Pi Robotic Projects

By Richard Grimmett

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Raspberry Pi Robotic Projects By Richard Grimmett

Create amazing robotic projects on a shoestring budget

About This Book

- Make your projects talk and understand speech with Raspberry Pi
- Use standard webcam to make your projects see and enhance vision capabilities
- Full of simple, easy-to-understand instructions to bring your Raspberry Pi online for developing robotics projects

Who This Book Is For

Raspberry Pi Robotic Projects is an easy-to-follow, step-by-step projects guide packed full of examples of actual robotics projects. Each topic is explained in detail to make it easy to replicate the projects described.

What You Will Learn

- Unbox, power-up, and configure Raspberry Pi with Ubuntu, a powerful version of Linux
- Exercise vision control in your projects to distinguish colors, patterns, or movements
- Apply and control speech software to enable your projects to speak
- Discover external hardware to enable your robotics projects to move
- Create complex robotics projects that can move, swim, or even fly
- Interact with your projects wirelessly so that they can be truly autonomous

In Detail

Robotics development is accelerating, and an amazing array of new hardware and software capabilities are available to anyone with an interest in the area. Robots will soon be a part of our everyday life, and it will soon be as important to know how they work as it is to know how a computer works. Raspberry Pi is a credit-card sized, fully capable PC that can be used for many of the things that your desktop PC does, such as spreadsheets, word processing, and games.

This book starts with the essentials of turning on the basic hardware. It provides the capability to interpret your commands and have your robot initiate actions. By the time you are through, you'll have robots that can speak, listen, and move in a number of amazing ways.

This book is a step-by-step projects guide to unlocking some complex and interesting capabilities of Raspberry Pi. Teaching you to use Raspberry Pi from scratch, this book will discuss a wide range of capabilities that can be achieved with it. These capabilities include voice recognition, human-like speech simulation, computer vision, motor control, GPS location, and wireless control. You will then learn how to combine these capabilities to create your own robotics projects.

By the time you have completed this book, you will be able to use Raspberry Pi to create some complex and fascinating robotics projects with a vast array of capabilities.

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Editorial Review

About the Author

Richard Grimmett

Richard Grimmett has been fascinated by computers and electronics from his very first programming project, which used Fortran on punch cards. He has a bachelor's and master's degree in electrical engineering and a PhD in leadership studies. He also has 26 years of experience in the radar and telecommunications industries (he even has one of the original brick phones). He now teaches computer science and electrical engineering at Brigham Young University Idaho, where his office is filled with his many robotic projects. He recently completed a book on using BeagleBone Black for robotic projects, and is now excited to release this title for those who prefer Raspberry Pi.

Users Review

From reader reviews:

James Dorman:

Information is provisions for those to get better life, information nowadays can get by anyone at everywhere. The information can be a expertise or any news even a problem. What people must be consider if those information which is from the former life are hard to be find than now is taking seriously which one is appropriate to believe or which one typically the resource are convinced. If you get the unstable resource then you have it as your main information there will be huge disadvantage for you. All those possibilities will not happen inside you if you take Raspberry Pi Robotic Projects as the daily resource information.

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