



Arduino Robotic Projects

By Richard Grimmett



Arduino Robotic Projects By Richard Grimmett

Build awesome and complex robots with the power of Arduino

About This Book

- Develop a series of exciting robots that can sail, go under water, and fly
- Simple, easy-to-understand instructions to program Arduino
- Effectively control the movements of all types of motors using Arduino
- Use sensors, GSP, and a magnetic compass to give your robot direction and make it lifelike

Who This Book Is For

This book is for anyone who has been curious about using Arduino to create robotic projects that were previously the domain of research labs of major universities or defense departments. Some programming background is useful, but if you know how to use a PC, you can, with the aid of the step-by-step instructions in this book, construct complex robotic projects that can roll, walk, swim, or fly.

What You Will Learn

- Acquaint yourself with the many different kinds of Arduinos to choose the right Arduino for your application
- Start to use your Arduino by unboxing, powering-up, and configuring the device
- Tweak Arduino to make wheels, or legs, move so that your robot can be mobile
- Add GPS to your projects so your robots can know where they are
- Use RF signals to control your robot remotely
- Connect your robot to a display so you can see what it is thinking
- Build more complex robots that can move, swim, or fly

In Detail

Arduino is an open source microcontroller, built on a single circuit board that is capable of receiving sensory input from the environment and controlling interactive physical objects.

Arduino Robotic Projects starts with the fundamentals of turning on the basic hardware and then provides complete, step-by-step instructions that allow almost anyone to use this low-cost hardware platform. You'll build projects that can move using DC motors, walk using servo motors, and then add sensors to avoid barriers. You'll also learn how to add more complex navigational techniques such as GPRS so that your robot won't get lost.

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Editorial Review

About the Author

Richard Grimmett

Richard Grimmett has always been fascinated by computers and electronics from his very first programming project that 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 and 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 has authored two books, BeagleBone Robotic Projects and Raspberry Pi Robotic Projects, for Packt Publishing.

Users Review

From reader reviews:

John Townsend:

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