Raspberry Pi Blueprints

By Dan Nixon

Raspberry Pi Blueprints By Dan Nixon

Design and build your own hardware projects that interact with the real world using the Raspberry Pi

About This Book

- Interact with a wide range of additional sensors and devices via Raspberry Pi
- Create exciting, low-cost products ranging from radios to home security and weather systems
- Full of simple, easy-to-understand instructions to create projects that even have professional-quality enclosures

Who This Book Is For

If you have already undertaken some simple projects with the Raspberry Pi and are looking to enter the exciting work of hardware interaction, then this book is ideal for you.

What You Will Learn

- Install and configure an operating system on your Raspberry Pi
- Design electronics circuits using a range of standard components
- Interact with electronic circuits and hardware using software libraries
- Write efficient Python applications to control hardware and process data
- Build professional-quality enclosures using a range of construction methods
- Implement best practices to be able to power your projects while on the go
- Configure Linux to run your applications at specific times
- Make your applications interact with online data and communication services

In Detail

The Raspberry Pi is one of the cheapest and most popular single-board computers, as such it has become a platform for users to create their own interesting hardware and software projects. It's capable of doing everything you'd expect a desktop computer to do, from browsing the Internet and playing high-

definition videos, to making spreadsheets, word processing, and playing games.

Filled with 10 interesting hardware projects, this book starts off by helping you get your Raspberry Pi set up with the popular Raspbian operating system, writing Python scripts, and interacting with some external hardware. As you progress through the next set of projects, you are introduced to additional pieces of software and will write scripts that bridge the gap between them and various sensors and hardware.

By the end of the book, you will be writing full Python applications that will both interface with a wide variety of hardware and be exposed to the Internet.

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Editorial Review

About the Author

Dan Nixon

Dan Nixon lives in England and is a 20-year old software engineering student who is currently studying at Newcastle University and is in his third year. He has long had an interest in electronics and embedded computing projects. Previously, Dan has worked on a 360-degree camera system for the Raspberry Pi and this is where his interest in the platform started. Currently, he is on a year-long work placement and is working on neutron data analysis software at the Rutherford Appleton Laboratory in Oxford, UK.

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