
Raspberry Pi 2 Server Essentials All It Ebooks

Easy Raspberry Pi Projects for 2023! Raspberry Pi Pico Projects Book Summary - Raspberry Pi Pico Essentials I Can Save You Money! - Raspberry Pi Alternatives Getting a Raspberry Pi 5? 10 things you should know Turing Pi 2 - The Ultimate Home Server? Raspberry Pi 2 Web Hosting - Full Email Server AND Web Server Creating A Raspberry Pi Web Server For My Home! Is the new Raspberry Pi AI Kit better than Google Coral? The New Raspberry Pi Zero 2 W Is Here! First Look \u0026amp; Review 13 Stunning Raspberry Pi Projects for 2024!!! Engineer Explains: Raspberry Pi is FINALLY Dead, Here's Why I built a MONSTER AI Pi with 8 Neural Processors! Raspberry Pi 5 - How To Build POWERFUL Home Server in 10 Minutes With CasaOS (2024) I ditched my Raspberry Pi for this This Single Board Computer is Faster than a Mac Mini AND a Raspberry Pi How to start your HomeLab journey? I Built a CoPilot+ AI PC (without Windows) Raspberry Pi LESSON 2: Linux Essentials in One Session Raspberry Pi Projects The Raspberry Pi is a great way to get started with Homelab! (How to Homelab Episode 4) What's on my Home Server? MUST HAVE Services! The World's Smallest Home Server - Raspberry Pi Zero 2 Ultimate Budget Home Server! #Shorts Mini Raspberry Pi Server With Built In UPS \u0026amp; Stats Display Raspberry pi is overated Testing the PiBox mini 2, a Raspberry Pi MicroK8s server Hands-on with the Turing Pi 2! Raspberry Pi Home Server - Docker, Portainer, Plex, Wordpress, and More

Innovative Data Communication Technologies and Application

Raspberry Pi Essentials

Building a Home Security System with Raspberry Pi

Integration of Cloud Computing with Internet of Things

Raspberry Pi Insider Guide

Python Programming with Raspberry Pi

Raspberry Pi Computer Architecture Essentials

Raspberry Pi for Secret Agents - Second Edition

Edge Computing

Raspberry Pi User Guide

Adventures in Raspberry Pi

JavaFX Essentials

How to Use Your New Computer

Raspberry Pi Computer Architecture Essentials

Learn Raspberry Pi Programming with Python

Develop and run your application with Docker containers using DevOps tools for continuous delivery

A Hands-On Course in Sensors Using the Arduino and Raspberry Pi

Raspberry Pi Computer Architecture Essentials

Raspberry Pi For Dummies

Raspberry Pi 2 Server Essentials All It Ebooks

OMB No. 1391004457279 edited by

MARLEY REID

Innovative Data Communication Technologies and Application Packt Publishing Ltd
JavaFX is a software platform to create and deliver rich Internet applications (RIAs) that can run across a wide variety of devices. JavaFX Essentials will help you to design and build high performance JavaFX 8-based applications that run on a variety of devices. Starting with the basics of

the framework, it will take you all the way through creating your first working application to discovering the core and main JavaFX 8 features, then controlling and monitoring your outside world. The examples provided illustrate different JavaFX and Java SE 8 features. This guide is an invaluable tutorial if you are planning to develop and create JavaFX 8 applications to run on a variety of devices and platforms.

Raspberry Pi Essentials John Wiley & Sons

Build sensor networks with Python and MicroPython using XBee radio modules, Raspberry Pi, and Arduino boards. This revised and updated edition will put all of these together to form a sensor

network, and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! You'll review the different types of sensors and sensor networks, along with new technology, including how to build a simple XBee network. You'll then walk through building an sensor nodes on the XBee, Raspberry Pi, and Arduino, and also learn how to collect data from multiple sensor nodes. The book also explores different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You'll even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server. If you want to see how well XBee, Raspberry Pi, and Arduino can get along, especially to create a sensor network, then *Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino* is just the book you need. What You'll Learn Code your sensor nodes with Python and MicroPython Work with new XBee 3 modules Host your data on Raspberry Pi Get started with MySQL Create sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions, including those with little or no programming experience. A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino, those interested in controlling XBee modules with MicroPython.

BUILDING A HOME SECURITY SYSTEM WITH RASPBERRY PI

John Wiley & Sons

Transform your Raspberry Pi into a multi-purpose web server that supports your entire multimedia world with this practical and accessible tutorial! About This Book Host websites, games, and even stream HD videos with the impressive power of Raspberry Pi 2 Get to grips with embedded programming by turning your Pi into the cloud server that can be used to power Internet of Things projects Make the Raspberry Pi 2 the center of your latest tech experiments and discover how it can manage and host resources Who This Book Is For Seeking inspiration for some new tech projects? Want to get more from your Raspberry Pi? This book has been created especially for you! What You Will Learn Host your Raspberry Pi as a web server using the minimum power resources Connect your Pi to the Internet and perform network benchmarking Explore the cross-platform features of the Pi as you run Python, Node.JS, ASP.NET, and PHP all in one place Share files over the Internet using your Pi as a file server Turn your Pi into a game server, host and engage into playing Enjoy live HD video streaming and exclusive real-time text overlays In Detail There's no end to what you can do with a Raspberry Pi - it makes a huge range of tech projects possible. This book shows you how to transform it into a multipurpose web server, able to store and manage resources that lets you build some truly innovative and impressive computing creations. You'll learn how to use your Raspberry Pi 2 to host a website using a range of different languages, host a game server, store files, and run everything from a media center to a cloud network. If you want to take control of your technological world, start building your own server and find out what's possible with the Raspberry Pi microcomputer. Begin by getting your Pi set up - follow each step as the book shows you how to prepare a network and configure the additional features that you'll need to build your projects. Once you've done this you'll dig a little deeper and set up your pi as a file server, making sure it's built for speed using a range of different tools, including Python, Node.js and ASP.NET. Following this the

book shows you how to extend your server to allow you to host games, and stream live HD video before customizing it even further to create a fully-fledged media center. It doesn't stop there however - the book then dives into the exciting world of the Internet of Things (IoT). You'll learn how to install Windows IoT onto your Raspberry Pi, the operating system that's driving embedded software projects all around the world. Once you've done this you'll be ready to explore IoT further, as the book shows you how to use your device to host a cloud network that can form the basis of a wider IoT project. Style and approach Packed with plenty of practical examples that walk you through a number of Raspberry Pi projects, this book is an accessible journey into embedded computing and Internet of Things.

Integration of Cloud Computing with Internet of Things Bsb

Learn Raspberry Pi with Linux will tell you everything you need to know about the Raspberry Pi's GUI and command line so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi with a monitor, keyboard and mouse, and you'll discover that what may look unfamiliar in Linux is really very familiar. You'll find out how to connect to the internet, change your desktop settings, and you'll get a tour of installed applications. Next, you'll take your first steps toward being a Raspberry Pi expert by learning how to get around at the Linux command line. You'll learn about different shells, including the bash shell, and commands that will make you a true power user. Finally, you'll learn how to create your first Raspberry Pi projects: Making a Pi web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service: find out who's dropping by Making a Pi media center: stream videos and music from your Pi Raspberry Pi is awesome, and it's Linux. And it's awesome because it's Linux. But if you've never used Linux or worked at the Linux command line before, it can be a bit daunting. Raspberry Pi is an amazing little computer with tons of potential. And Learn Raspberry Pi with Linux can be your first step in unlocking that potential.

Raspberry Pi Insider Guide CRC Press

The must-have companion guide to the Raspberry Pi User Guide! Raspberry Pi chose Python as its teaching language of choice to encourage a new generation of programmers to learn how to program. This approachable book serves as an ideal resource for anyone wanting to use Raspberry Pi to learn to program and helps you get started with the Python programming language. Aimed at first-time developers with no prior programming language assumed, this beginner book gets you up and running. Covers variables, loops, and functions Addresses 3D graphics programming Walks you through programming Minecraft Zeroes in on Python for scripting Learning Python with Raspberry Pi proves itself to be a fantastic introduction to coding.

Python Programming with Raspberry Pi John Wiley & Sons

Transform your Raspberry Pi into a multi-purpose web server that supports your entire multimedia world with this practical and accessible tutorial!About This Book- Host websites, games, and even stream HD videos with the impressive power of Raspberry Pi 2- Get to grips with embedded programming by turning your Pi into the cloud server that can be used to power Internet of Things projects- Make the Raspberry Pi 2 the center of your latest tech experiments and discover how it can manage and host resourcesWho This Book Is ForSeeking inspiration for some new tech projects? Want to get more from your Raspberry Pi? This book has been created especially for you!What You

Will Learn- Host your Raspberry Pi as a web server using the minimum power resources- Connect your Pi to the Internet and perform network benchmarking- Explore the cross-platform features of the Pi as you run Python, Node.JS, ASP.NET, and PHP all in one place- Share files over the Internet using your Pi as a file server- Turn your Pi into a game server, host and engage into playing- Enjoy live HD video streaming and exclusive real-time text overlaysIn DetailThere's no end to what you can do with a Raspberry Pi - it makes a huge range of tech projects possible. This book shows you how to transform it into a multipurpose web server, able to store and manage resources that lets you build some truly innovative and impressive computing creations. You'll learn how to use your Raspberry Pi 2 to host a website using a range of different languages, host a game server, store files, and run everything from a media center to a cloud network. If you want to take control of your technological world, start building your own server and find out what's possible with the Raspberry Pi microcomputer.Begin by getting your Pi set up - follow each step as the book shows you how to prepare a network and configure the additional features that you'll need to build your projects. Once you've done this you'll dig a little deeper and set up your pi as a file server, making sure it's built for speed using a range of different tools, including Python, Node.js and ASP.NET. Following this the book shows you how to extend your server to allow you to host games, and stream live HD video before customizing it even further to create a fully-fledged media center.It doesn't stop there however - the book then dives into the exciting world of the Internet of Things (IoT). You'll learn how to install Windows IoT onto your Raspberry Pi, the operating system that's driving embedded software projects all around the world. Once you've done this you'll be ready to explore IoT further, as the book shows you how to use your device to host a cloud network that can form the basis of a wider IoT project.Style and approachPacked with plenty of practical examples that walk you through a number of Raspberry Pi projects, this book is an accessible journey into embedded computing and Internet of Things.

RASPBERRY PI COMPUTER ARCHITECTURE ESSENTIALS

John Wiley & Sons

The book aims to integrate the aspects of IoT, Cloud computing and data analytics from diversified perspectives. The book also plans to discuss the recent research trends and advanced topics in the field which will be of interest to academicians and researchers working in this area. Thus, the book intends to help its readers to understand and explore the spectrum of applications of IoT, cloud computing and data analytics. Here, it is also worth mentioning that the book is believed to draw attention on the applications of said technology in various disciplines in order to obtain enhanced understanding of the readers. Also, this book focuses on the researches and challenges in the domain of IoT, Cloud computing and Data analytics from perspectives of various stakeholders.

Raspberry Pi for Secret Agents - Second Edition Packt Publishing Ltd

Coding for kids is cool with Raspberry Pi and this elementary guide Even if your kids don't have an ounce of computer geek in them, they can learn to code with Raspberry Pi and this wonderful book. Written for 11- to 15-year-olds and assuming no prior computing knowledge, this book uses the wildly successful, low-cost, credit-card-sized Raspberry Pi computer to explain fundamental computing concepts. Young people will enjoy going through the book's nine fun projects while they

learn basic programming and system administration skills, starting with the very basics of how to plug in the board and turn it on. Each project includes a lively and informative video to reinforce the lessons. It's perfect for young, eager self-learners—your kids can jump in, set up their Raspberry Pi, and go through the lessons on their own. Written by Carrie Anne Philbin, a high school teacher of computing who advises the U.K. government on the revised ICT Curriculum Teaches 11- to 15-year-olds programming and system administration skills using Raspberry Pi Features 9 fun projects accompanied by lively and helpful videos Raspberry Pi is a \$35/£25 credit-card-sized computer created by the non-profit Raspberry Pi Foundation; over a million have been sold Help your children have fun and learn computing skills at the same time with Adventures in Raspberry Pi.

EDGE COMPUTING

Packt Publishing Ltd

This book presents emerging concepts in data mining, big data analysis, communication, and networking technologies, and discusses the state-of-the-art in data engineering practices to tackle massive data distributions in smart networked environments. It also provides insights into potential data distribution challenges in ubiquitous data-driven networks, highlighting research on the theoretical and systematic framework for analyzing, testing and designing intelligent data analysis models for evolving communication frameworks. Further, the book showcases the latest developments in wireless sensor networks, cloud computing, mobile network, autonomous systems, cryptography, automation, and other communication and networking technologies. In addition, it addresses data security, privacy and trust, wireless networks, data classification, data prediction, performance analysis, data validation and verification models, machine learning, sentiment analysis, and various data analysis techniques.

Apress

THE MOST UP-TO-DATE RASPBERRY PI GUIDE AVAILABLE . Everything you need to make you an expert using the Raspberry Pi Model B and B+. "Taking you from beginner to expert." Even as an absolute beginner you will start on a journey that will ultimately leave you knowledgeable and with the confidence to work your Raspberry Pi to the limit. All you need is this book and some time to work through it. The world of computing moves fast and since the Raspberry Pi was launched in 2012, a lot has changed. RASPBERRY PI INSIDER GUIDE is the most complete up-to-date guide available. This comprehensive volume covers the Raspberry Pi and its software as it is today. What you do with your Raspberry Pi will be driven by your interests and perhaps the interests of your family. High on the priority list is to learn, to experiment and to enjoy - RASPBERRY PI INSIDER GUIDE will show you how. RASPBERRY PI INSIDER GUIDE is organised in seven sections, each containing chapters aimed at taking you the next step. From connecting your Raspberry Pi to choosing and selecting add-ons and using the Raspbian Operating System and desktop environment, you will be well on your way to expert status. INSIDER GUIDE will show you how to use hard drives and printers and how to connect cameras to take great pictures. Create your own website and then a stunning media centre to manage all your TV and music needs. You'll even learn how to make your Pi speak and create an amazing home office using free world-class software. Moving on, you will learn to master programming and become proficient in some of the industry

standard languages available to you, including Bash, Python, Scratch and assembly language. Learn about other Operating Systems available for the Raspberry Pi, including RISC OS, Pidora and Arch Linux. Finally, discover the Raspberry Pi board itself, and find out how you can use the GPIO port to connect and control the outside world using simple examples. RASPBERRY PI INSIDER GUIDE will show you many things including how to: select the bare essentials you will need to get your Raspberry Pi up and running. copy and install the Raspbian Operating System. identify and connect everything together, switch it on and get it all working. use the command line to issue instructions and access important information. use the Desktop environment to run programs and games. use essential software to maintain your Raspberry Pi in tip-top condition. add additional devices such as disk drives, printers and cameras. have fun with the Camera Module or a webcam and take and edit photos including using time lapse photography. play high definition videos and top quality sound including music. start to program in several industry-standard languages including Python. create a simple website for use as a home information centre or anything you want update and upgrade your Raspberry Pi and find and install new software. install and use LibreOffice for all your administrative and business needs. create a media centre and access great free-to-air TV and video channels. make your Raspberry Pi talk install and use RISC OS as a second Operating System and become familiar with Pidora and Arch Linux. understand the components on the Raspberry Pi and what they do. connect devices to the GPIO port and use them from a language of your choice. make your Raspberry Pi go faster by selecting Turbo mode. ideal for beginners, the RASPBERRY PI INSIDER GUIDE assumes no prior knowledge and will turn you into an expert. This book covers the all models including the A, B, A+ and B+.

Raspberry Pi User Guide Raspberry Pi 2 Server Essentials

Build your own sophisticated modular home security system using the popular Raspberry Pi board About This Book This book guides you through building a complete home security system with Raspberry Pi and helps you remotely access it from a mobile device over the Internet It covers the fundamentals of interfacing sensors and cameras with the Raspberry Pi so that you can connect it to the outside world It follows a modular approach so that you can choose the modules and features you want for your customized home security system Who This Book Is For This book is for anyone who is interested in building a modular home security system from scratch using a Raspberry Pi board, basic electronics, sensors, and simple scripts. This book is ideal for enthusiastic novice programmers, electronics hobbyists, and engineering professionals. It would be great if you have some basic soldering skills in order to build some of the interface modules. What You Will Learn Understand the concepts behind alarm systems and intrusion detection devices Connect sensors and devices to the on-board digital GPIO ports safely Monitor and control connected devices easily using Bash shell scripting Build an I/O port expander using the I2C bus and connect sensors and anti-tamper circuits Capture and store images using motion detectors and cameras Access and manage your system remotely from your mobile phone Receive intrusion alerts and images through your e-mail Build a sophisticated multi-zone alarm system In Detail The Raspberry Pi is a powerful low-cost credit-card-sized computer, which lends itself perfectly as the controller for a sophisticated home security system. Using the on-board interfaces available, the Raspberry Pi can be expanded to allow the connection of a virtually infinite number of security sensors and devices. The Raspberry Pi has

the processing power and interfaces available to build a sophisticated home security system but at a fraction of the cost of commercially available systems. Building a Home Security System with Raspberry Pi starts off by showing you the Raspberry Pi and how to set up the Linux-based operating system. It then guides you through connecting switch sensors and LEDs to the native GPIO connector safely, and how to access them using simple Bash scripts. As you dive further in, you'll learn how to build an input/output expansion board using the I2C interface and power supply, allowing the connection of the large number of sensors needed for a typical home security setup. In the later chapters of the book, we'll look at more sophisticated topics such as adding cameras, remotely accessing the system using your mobile phone, receiving intrusion alerts and images by e-mail, and more. By the end of the book, you will be well-versed with the use of Raspberry Pi to power a home-based security system that sends message alerts whenever it is triggered and will be able to build a truly sophisticated and modular home security system. You will also gain a good understanding of Raspberry Pi's ecosystem and be able to write the functions required for a security system. Style and approach This easy-to-follow guide comprises a series of projects, where every chapter introduces a new concept and at the end of the book, all these concepts are brought together to create an entire home security system. This book features clear diagrams and code every step of the way.

Adventures in Raspberry Pi CRC Press

If you are someone who loves to play games and are interested in learning more about the capabilities of your Raspberry Pi, this book is for you. Basic knowledge of Raspberry Pi programming is expected.

JavaFX Essentials Packt Publishing Ltd

A playful, informal approach to using the Raspberry Pi for mischief! Raspberry Pi for Secret Agents is for all mischievous Raspberry Pi owners who'd like to see their computer transform into a neat spy gadget to be used in a series of practical pranks and projects. No previous skills are required to follow along and if you're completely new to Linux, you'll pick up much of the basics for free. Apart from the Raspberry Pi board itself, a USB microphone and/or a webcam is required for most of the audio/video topics and a Wi-Fi dongle is recommended for the networking examples. A Windows/Mac OS X/Linux computer (or second Raspberry Pi) is also recommended for remote network access.

How to Use Your New Computer Packt Publishing Ltd

Get your slice of Raspberry Pi With the invention of the unique credit card-sized single-board computer comes a new wave of hardware geeks, hackers, and hobbyists who are excited about the possibilities with the Raspberry Pi—and this is the perfect guide to get you started. With this down-to-earth book, you'll quickly discover why the Raspberry Pi is in high demand! There's a reason the Raspberry Pi sold a million units in its first year, and you're about to find out why! In Raspberry Pi For Dummies, 3rd Edition veteran tech authors Sean McManus and Mike Cook make it easier than ever to get you up and running on your Raspberry Pi, from setting it up, downloading the operating system, and using the desktop environment to editing photos, playing music and videos, and programming with Scratch—and everything in between. Covers connecting the Pi to other devices such as a keyboard, mouse, monitor, and more Teaches you basic Linux System Admin Explores creating simple hardware projects Shows you how to create web pages Raspberry Pi For Dummies,

3rd Edition makes computing as easy as pie!

Raspberry Pi Computer Architecture Essentials Apress

This reference text presents the state-of-the-art in edge computing, its primitives, devices and simulators, applications, and healthcare-based case studies. The text provides integration of blockchain with edge computing systems and integration of edge with Internet of Things (IoT) and cloud computing. It will facilitate readers to setup edge-based environment and work with edge analytics. It covers important topics, including cluster computing, fog computing, networking architecture, edge computing simulators, edge analytics, privacy-preserving schemes, edge computing with blockchain, autonomous vehicles, and cross-domain authentication. Aimed at senior undergraduate, graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and information technology, this text: Discusses edge data storage security with case studies and blockchain integration with the edge computing system Covers theoretical methods with the help of applications, use cases, case studies, and examples Provides healthcare real-time case studies elaborated by utilizing the virtues of homomorphic encryption Discusses real-time interfaces, devices, and simulators in detail

Learn Raspberry Pi Programming with Python Apress

Learn how to deploy and test Linux-based Docker containers with the help of real-world use cases
Key Features Understand how to make a deployment workflow run smoothly with Docker containers
 Learn Docker and DevOps concepts such as continuous integration and continuous deployment (CI/CD)
 Gain insights into using various Docker tools and libraries
Book Description Docker is the de facto standard for containerizing apps, and with an increasing number of software projects migrating to containers, it is crucial for engineers and DevOps teams to understand how to build, deploy, and secure Docker environments effectively. Docker for Developers will help you understand Docker containers from scratch while taking you through best practices and showing you how to address security concerns. Starting with an introduction to Docker, you'll learn how to use containers and VirtualBox for development. You'll explore how containers work and develop projects within them after you've explored different ways to deploy and run containers. The book will also show you how to use Docker containers in production in both single-host set-ups and in clusters and deploy them using Jenkins, Kubernetes, and Spinnaker. As you advance, you'll get to grips with monitoring, securing, and scaling Docker using tools such as Prometheus and Grafana. Later, you'll be able to deploy Docker containers to a variety of environments, including the cloud-native Amazon Elastic Kubernetes Service (Amazon EKS), before finally delving into Docker security concepts and best practices. By the end of the Docker book, you'll be able to not only work in a container-driven environment confidently but also use Docker for both new and existing projects. What you will learn
 Get up to speed with creating containers and understand how they work
 Package and deploy your containers to a variety of platforms
 Work with containers in the cloud and on the Kubernetes platform
 Deploy and then monitor the health and logs of running containers
 Explore best practices for working with containers from a security perspective
 Become familiar with scanning containers and using third-party security tools and libraries
 Who this book is for If you're a software engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container-based projects, you'll find this book useful. This

Docker containers book is also a handy reference guide for anyone working with a Docker-based DevOps ecosystem or interested in understanding the security implications and best practices for working in container-driven environments.

Develop and run your application with Docker containers using DevOps tools for continuous delivery Springer Nature

Use your Raspberry Pi to get smart about computing fundamentals In the 1980s, the tech revolution was kickstarted by a flood of relatively inexpensive, highly programmable computers like the Commodore. Now, a second revolution in computing is beginning with the Raspberry Pi. Learning Computer Architecture with the Raspberry Pi is the premier guide to understanding the components of the most exciting tech product available. Thanks to this book, every Raspberry Pi owner can understand how the computer works and how to access all of its hardware and software capabilities. Now, students, hackers, and casual users alike can discover how computers work with Learning Computer Architecture with the Raspberry Pi. This book explains what each and every hardware component does, how they relate to one another, and how they correspond to the components of other computing systems. You'll also learn how programming works and how the operating system relates to the Raspberry Pi's physical components. Co-authored by Eben Upton, one of the creators of the Raspberry Pi, this is a companion volume to the Raspberry Pi User Guide An affordable solution for learning about computer system design considerations and experimenting with low-level programming Understandable descriptions of the functions of memory storage, Ethernet, cameras, processors, and more Gain knowledge of computer design and operation in general by exploring the basic structure of the Raspberry Pi The Raspberry Pi was created to bring forth a new generation of computer scientists, developers, and architects who understand the inner workings of the computers that have become essential to our daily lives. Learning Computer Architecture with the Raspberry Pi is your gateway to the world of computer system design.

A Hands-On Course in Sensors Using the Arduino and Raspberry Pi Packt Publishing Ltd

In this book, we explore Raspberry Pi 2's hardware through a number of projects in a variety of programming languages. We will start by exploring the various hardware components in detail, which will provide a base for the programming projects and guide you through setting up the tools for Assembler, C/C++, and Python. We will then learn how to write multi-threaded applications and Raspberry Pi 2's multi-core processor. Moving on, you'll get hands on by expanding the storage options of the Raspberry Pi beyond the SD card and interacting with the graphics hardware. Furthermore, you will be introduced to the basics of sound programming while expanding upon your knowledge of Python to build a web server. Finally, you will learn to interact with the third-party microcontrollers.

Raspberry Pi Computer Architecture Essentials Packt Publishing Ltd

The Raspberry Pi B2 is an inexpensive embedded processor that provides a high-performance Linux development environment. This book is a fast-paced guide that will show you how to use Raspberry Pi technology to build a biped robot that can interact with its environment. We start off by explaining the basics of getting your Raspberry Pi up and running, ready to be mounted on your biped platform. After this, you will be introduced to the art of constructing a mechanism for the biped platform. You will then learn to develop a vision system for your robot, as well as a means by which you can

control and monitor it. At the end of this book, you will have learned enough to build a complex biped robot that can walk, turn, find its way, and "see" its environment.

RASPBERRY PI FOR DUMMIES

Createspace Independent Publishing Platform

Furthermore, you will be introduced to the basics of sound programming while expanding upon your knowledge of Python to build a web server. Finally, you will learn to interact with the third-party

microcontrollers. In this book, we explore Raspberry Pi 2's hardware through a number of projects in a variety of programming languages. We will start by exploring the various hardware components in detail, which will provide a base for the programming projects and guide you through setting up the tools for Assembler, C/C++, and Python. We will then learn how to write multi-threaded applications and Raspberry Pi 2's multi-core processor. Moving on, you'll get hands on by expanding the storage options of the Raspberry Pi beyond the SD card and interacting with the graphics hardware.

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