



Raspberry Pi Robotics Projects

Second Edition

Get the most out of Raspberry Pi to build enthralling robotics projects

Richard Grimmett

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Raspberry Pi Robotic Projects Grimmert Richard

Richard Grimmert



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Raspberry Pi Robotic Projects Richard Grimmatt, 2016-10-17 Work through a mix of amazing robotic projects using the Raspberry Pi Zero or the Raspberry Pi 3 Key Features Easy to follow instructions yet the ones that help you build powerful robots and exclusive coverage of mobile robots with the Pi Zero Build robots that can run swim and fly and the cutting edge dimension of robotics that is possible with the Raspberry Pi Zero and Pi 3 Interact with your projects wirelessly and make sci fi possible right in your home Book Description This book will allow you to take full advantage of Raspberry Pi Zero and Raspberry Pi 3 by building both simple and complex robotic projects The book takes a mission critical approach to show you how to build amazing robots and helps you decide which board to use for which type of robot The book puts a special emphasis on designing mobile or movable robots using the Raspberry Pi Zero The projects will show inexpensive yet powerful ways to take full advantage It will teach you how to program Raspberry Pi control the movement of your robot and add features to your robots What you will learn Control a variety of different DC motors Add a USB webcam to see what your robot can see Attach a projector to project information Insert USB control hardware to control a complex robot with two legs Include speech recognition so that your projects can receive commands Add speech output to that the robot can communicate with the world around it Include wireless communication so that you can see what the robot is seeing and control the robot from a distance Who this book is for This book is for hobbyists and programmers who are excited about using the Raspberry Pi 3 and Raspberry Pi Zero It is for those who are taking their first steps towards using these devices to control hardware and software and write simple programs that enable amazing projects No programming experience is required Just a little computer and mechanical aptitude and the desire to build some interesting projects

Raspberry Pi Robotic Projects - Third Edition Richard Grimmatt, 2016-10-11 Work through a mix of amazing robotic projects using the Raspberry Pi Zero or the Raspberry Pi 3 About This Book Easy to follow instructions yet the ones that help you build powerful robots and exclusive coverage of mobile robots with the Pi Zero Build robots that can run swim and fly and the cutting edge dimension of robotics that is possible with the Raspberry Pi Zero and Pi 3 Interact with your projects wirelessly and make sci fi possible right in your home Who This Book Is For This book is for hobbyists and programmers who are excited about using the Raspberry Pi 3 and Raspberry Pi Zero It is for those who are taking their first steps towards using these devices to control hardware and software and write simple programs that enable amazing projects No programming experience is required Just a little computer and mechanical aptitude and the desire to build some interesting projects What You Will Learn Control a variety of different DC motors Add a USB webcam to see what your robot can see Attach a projector to project information Insert USB control hardware to control a complex robot with two legs Include speech recognition so that your projects can receive commands Add speech output to that the robot can communicate with the world around it Include wireless communication so that you can see what the robot is seeing and control the robot from a distance In Detail This book

will allow you to take full advantage of Raspberry Pi Zero and Raspberry Pi 3 by building both simple and complex robotic projects. The book takes a mission critical approach to show you how to build amazing robots and helps you decide which board to use for which type of robot. The book puts a special emphasis on designing mobile or movable robots using the Raspberry Pi Zero. The projects will show inexpensive yet powerful ways to take full advantage. It will teach you how to program Raspberry Pi, control the movement of your robot, and add features to your robots. Style and approach: This fun and practical tutorial contains step by step instructions to get you hands on building inexpensive projects. It contains mission critical chapters and everything you need to know to get started. Raspberry Pi Robotics Essentials Richard

Grimmett, 2015-06-19. 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. **Arduino Robotic Projects** Richard Grimmett, 2014-08-14. 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.

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Raspberry Pi Zero Richard Grimmett, 2016-03-30. Get started with the smallest, cheapest, and highest utility Pi ever. Raspberry Pi Zero. About This Book: Get started with Raspberry Pi Zero and put all of its exciting features to use. Create fun games and programs with little or no programming experience. Learn to use this super tiny PC to control hardware and software for work, play, and everything else. Who This Book Is For: This book is for hobbyists and programmers who are taking their first steps toward using Raspberry Pi Zero. No programming experience is required, although some Python programming experience might be useful. What You Will Learn: Understand how to initially download the operating system and set up Raspberry Pi Zero. Find out how to control the GPIO pins of Raspberry Pi Zero to control LED circuits. Get to grips with adding hardware to the GPIO to control more complex hardware such as motors. Add USB control hardware to control a complex robot with 12 servos. Include speech recognition so that projects can receive commands. Enable the robot to

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from the following Packt products Raspberry Pi By Example by Ashwin Pajankar and Arush Kakkar Building a Home Security System with Raspberry Pi by Matthew Pole Raspberry Pi Robotics Essentials by Richard Grimmett Style and approach It's not every day you build a home automation system It's not every day you build a walking robot But with this Learning Path you'll do just that So get started and let this tiny computer expand your imagination **Raspberry Pi Robotic Blueprints**

Richard Grimmett, 2015-10-30 Utilize the powerful ingredients of Raspberry Pi to bring to life your amazing robots that can act, draw and have fun with laser tags About This Book Learn to implement a number of features offered by Raspberry Pi to build your own amazing robots Understand how to add vision and voice to your robots This fast-paced practical guide comprises a number of creative projects to take your Raspberry Pi knowledge to the next level Who This Book Is For This all-encompassing guide was created for anyone who is interested in expanding their knowledge in applying the peripherals of Raspberry Pi If you have a fancy for building complex-looking robots with simple, inexpensive and readily available hardware then this book is ideal for you Prior understanding of Raspberry Pi with simple mechanical systems is recommended What You Will Learn Add sensors to your robot so that it can sense the world around it Know everything there is to know about accessing motors and servos to provide movement to the robotic platform Explore the feature of adding vision to your robot so it can see the world around it Refine your robot with the skill of speech recognition so that it can receive commands Polish your robot by adding speech output so it can communicate with the world around it Maximize the use of servos in Raspberry Pi to create a drawing robot Strengthen your robot by adding wireless communication skills so you can see what the robot is seeing and control it from a distance Build an unbelievable autonomous hexcopter controlled by Raspberry Pi In Detail The Raspberry Pi is a series of credit card-sized single-board computers developed in the UK by the Raspberry Pi Foundation with the intention of promoting the teaching of basic computer science in schools The Raspberry Pi is known as a tiny computer built on a single circuit board It runs a Linux operating system and has connection ports for various peripherals so that it can be hooked up to sensors, motors, cameras and more Raspberry Pi has been hugely popular among hardware hobbyists for various projects including robotics This book gives you an insight into implementing several creative projects using the peripherals provided by Raspberry Pi To start we'll walk through the basic robotics concepts that the world of Raspberry Pi offers us implementing wireless communication to control your robot from a distance Next we demonstrate how to build a sensible and a visionary robot maximizing the use of sensors and step controllers After that we focus on building a wheeled robot that can draw and play hockey To finish with a bang we'll build an autonomous hexcopter that is a flying robot controlled by Raspberry Pi By the end of this book you will be a maestro in applying an array of different technologies to create almost any imaginable robot Style and approach This book is an easy-to-follow project-based guide that throws you directly into the action of creating almost any imaginable robot through blueprints It is full of step-by-step instructions and screenshots to help you build amazing robots in no time at all *Mastering BeagleBone Robotics* Richard

Grimmett,2014-12-22 If you want a simple guide to building complex robots then this book is for you You ll need some programming knowledge and experience working with mechanical systems *BeagleBone Robotic Projects* Richard Grimmett,2017-06-13 Exciting new capabilities to enable even easier DIY robotics with BeagleBone Blue Key Features Build powerful robots with the all new BeagleBone Blue Communicate with your robot and teach it to detect and respond to its environment Control walking rolling swimming and flying robots with your iOS and Android mobile devices Book DescriptionBeagleBone Blue is effectively a small light cheap computer in a similar vein to Raspberry Pi and Arduino It has all of the extensibility of today s desktop machines but without the bulk expense or noise This project guide provides step by step instructions that enable anyone to use this new low cost platform in some fascinating robotics projects By the time you are finished your projects will be able to see speak listen detect their surroundings and move in a variety of amazing ways The book begins with unpacking and powering up the components This includes guidance on what to purchase and how to connect it all successfully and a primer on programming the BeagleBone Blue You will add additional software functionality available from the open source community including making the system see using a webcam hear using a microphone and speak using a speaker You will then learn to use the new hardware capability of the BeagleBone Blue to make your robots move as well as discover how to add sonar sensors to avoid or find objects Later you will learn to remotely control your robot through iOS and Android devices At the end of this book you will see how to integrate all of these functionalities to work together before developing the most impressive robotics projects Drone and Submarine What you will learn Power on and configure the BeagleBone Blue Get to know Simple programming techniques to enable the unique hardware capabilities of the BeagleBone Blue Connect standard hardware to enable your projects to see speak hear and move Build advanced capabilities into your projects such as GPS and sonar sensors Build complex projects that can fly or go under or on the water Who this book is for This book is for anyone who is curious about using new low cost hardware to create robotic projects and have previously been the domain of research labs major universities or defence departments Some programming experience would be useful but if you know how to use a personal computer you can use this book to construct far more complex systems than you would have thought possible **Raspberry Pi Android Projects** Gokhan Kurt,2015-09-25 Create exciting projects by connecting the Raspberry Pi to your Android phone About This Book Manage most of the fundamental functions of Raspberry Pi from your Android phone Use the projects created in this book to develop even more exciting projects in the future A project based learning experience to help you discover amazing ways to combine the power of Android and Raspberry Pi Who This Book Is For The target audience for this book includes Raspberry Pi enthusiasts hobbyists and anyone who wants to create engaging projects with Android OS Some knowledge of Android programming would be helpful What You Will Learn Install the tools required on your Pi and Android to manage and administer the Pi from Android Share your files between different Android devices using the Pi as a server Set up the Pi to live stream the camera in surveillance mode

and customize Android to receive this content Turn your Pi into a media center and control it from your Android See your Android display on a large screen using Raspberry Pi Connect your car s dashboard to your Android device using Raspberry Pi In Detail Raspberry Pi is the credit card sized general purpose computer which has revolutionized portable technology Android is an operating system that widely used in mobile phones today both on the high and low ends of the mobile phone market However there is little information about how to connect the two in spite of how popular both of them are Raspberry Pi Android Projects starts with simple projects that help you access the command prompt and the desktop environment of Raspberry Pi from the comfort of your Android phone or tablet Then you will be introduced to more complex projects that combine the strengths of the Pi and Android in amazing ways These projects will teach you how to manage services on the Pi from Android share files between Android devices using the Pi as a server administer and view the Pi s camera from Android in surveillance mode and connect your car to the Pi and make data more accessible using Android The introductory projects covered will be useful each time you need to access or administer your Pi for other purposes and the more advanced projects will continue to be valuable even after you become an expert on Pi By the end of this book you will be able to create engaging and useful projects that will help you combine the powers of both Android and Raspberry Pi

Style and approach A quick and easy to follow guide that will show how you can add up the power of Pi and Android by combining them

Raspberry Pi Projects for Kids - Second Edition Daniel Bates,2015-04-28 This book is for kids who wish to develop games and applications using the Raspberry Pi No prior experience in programming is necessary you need only a Raspberry Pi and the required peripherals

The Official Raspberry Pi Projects Book Volume 2 The Makers of The MagPi magazine,2016-11-01 The Official Raspberry Pi projects book returns with inspirational projects detailed step by step guides and product reviews based around the phenomenon that is the Raspberry Pi See why educators and makers adore the credit card sized computer that can be used to make robots retro games consoles and even art In this volume of The Official Raspberry Pi Projects Book you ll Get involved with the amazing and very active Raspberry Pi community Be inspired by incredible projects made by other people Learn how to make with your Raspberry Pi with our tutorials Find out about the top kits and accessories for your Pi projects And much much more If this is your first time using a Raspberry Pi you ll also find some very helpful guides to get you started with your Raspberry Pi journey With millions of Raspberry Pi boards out in the wild that s millions more people getting into digital making and turning their dreams into a Pi powered reality Being so spoilt for choice though means that we ve managed to compile an incredible list of projects guides and reviews for you This book was written using an earlier version of Raspberry Pi OS Please use Raspberry Pi OS Legacy for full compatibility See magpi cc legacy for more information

Raspberry Pi Essentials Jack Creasey,2015-04-28 Programmers new to the Raspberry Pi and novice programmers with little to no experience with micro board computing will find the book useful A basic knowledge of programming languages in general will prove useful for a better understanding of the topics

Penetration Testing with

Raspberry Pi Joseph Muniz,Aamir Lakhani,2015-01-27 If you are looking for a low budget small form factor remotely accessible hacking tool then the concepts in this book are ideal for you If you are a penetration tester who wants to save on travel costs by placing a low cost node on a target network you will save thousands by using the methods covered in this book You do not have to be a skilled hacker or programmer to use this book It will be beneficial to have some networking experience however it is not required to follow the concepts covered in this book **Raspberry Pi LED Blueprints** Agus Kurniawan,2015-09-24 Design build and test LED based projects using the Raspberry Pi About This Book Implement real LED based projects for Raspberry Pi Learn to interface various LED modules such as LEDs 7 segment 4 digits 7 segment and dot matrix to Raspberry Pi Get hands on experience by exploring real time LEDs with this project based book Who This Book Is For This book is for those who want to learn how to build Raspberry Pi projects utilising LEDs 7 segment 4 digits 7 segment and dot matrix modules You also will learn to implement those modules in real applications including interfacing with wireless modules and the Android mobile app However you don t need to have any previous experience with the Raspberry Pi or Android platforms What You Will Learn Control LEDs 7 segments and 4 digits 7 segment from a Raspberry Pi Expand Raspberry Pi s GPIO Build a countdown timer Build a digital clock display Display numbers and characters on dot matrix displays Build a traffic light controller Build a remote home light control with a Bluetooth low energy module and Android Build mobile Internet controlled lamps with a wireless module and Android In Detail Blinking LED is a popular application when getting started in embedded development By customizing and utilising LED based modules into the Raspberry Pi board exciting projects can be obtained A countdown timer a digital clock a traffic light controller and a remote light controller are a list of LED based inspired project samples for Raspberry Pi An LED is a simple actuator device that displays lighting and can be controlled easily from a Raspberry Pi This book will provide you with the ability to control LEDs from Raspberry Pi starting from describing an idea through designing and implementing several projects based on LEDs such as 7 segments 4 digits 7 segment and dot matrix displays Beginning with step by step instructions on installation and configuration this book can either be read from cover to cover or treated as an essential reference companion to your Raspberry Pi Samples for the project application are provided such as a countdown timer a digital clock a traffic light controller a remote light controller and an LED based Internet of Things so you get more practice in the art of Raspberry Pi development *Raspberry Pi LED Blueprints* is an essential reference guide full of practical solutions to help you build LED based applications Style and approach This book follows a step by step approach to LED based development for Raspberry Pi explained in a conversational and easy to follow style Each topic is explained sequentially in the process of building an application and detailed explanations of the basic and advanced features are included *Learning Raspberry Pi* Samarth Shah,2015-04-24 If you have a passion for technology and want to explore the world of Raspberry Pi then this book provides you with all the tools and information you are looking for Although being familiar with basic programming concepts is useful you can still learn a

lot from this book as a wide variety of topics are covered

Emerging Topics and Questions in Infocommunication

Technologies Sergey Balandin, Vladimir Deart, Valtteri Niemi, 2020-06-16 This collection of essays consists of selected papers presented at the 24th IEEE FRUCT conference It highlights the most pressing research topics in infocommunication technologies such as challenges in the development of next generation networks the architectures and design of innovative knowledge based systems and innovations in healthcare and eHealth Raspberry Pi Gaming - Second Edition Shea

Silverman, 2015-02-20 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 *Raspberry Pi: Amazing Projects from Scratch* Ashwin Pajankar, Arush Kakkar, Matthew Poole, Richard Grimmett, 2016-09-26 Explore the powers of Raspberry Pi and build your very own projects right out of the box About This Book From robotics to gaming this Learning Path will unlock your creativity Build your own impressive IoT projects to transform your home Featuring some of Packt's very best Raspberry Pi content this Learning Path doesn't just get you to your destination it opens up a whole horizon of possibilities Who This Book Is For Want new ideas for your next Raspberry Pi project Got one lying around gathering dust This Learning Path gets you straight into the creative dirty work of programming and playing with your pi Whether your new to Raspberry Pi or an experienced maker we think this Learning Path will inspire you and get your creative juices flowing What You Will Learn Discover an awesome range of Raspberry Pi projects Bridge the gap between software and hardware through your Pi and find out how to make an operating system interact with cameras and other hardware Find out how to use your Raspberry Pi for gaming Secure your home with this tiny computer Make science fiction a reality build a walking robot In Detail Looking for inspiration for your next Raspberry Pi project Not sure where to begin This Learning Path is the perfect place to begin providing you with an accessible yet comprehensive journey through Raspberry Pi Following three modules you'll soon be confident and prepared to get creative with your microcomputer Raspberry Pi by Example is the first module in this Learning Path and it does exactly what it says It doesn't just teach it shows you how to go and build some awesome Raspberry Pi projects immediately Build and play your own games with the Pi build a complete Internet of Things home automation system that controls your house through Twitter let your imagination run wild In the next module we'll look in more depth at building a home security system You'll be using some of the skills you developed through the first module but apply them to something more intricate and impressive Using a Linux based operating system as the foundations you'll gradually build up an entire security infrastructure adding cameras remote controls and even intrusion alerts In the final module we'll take you into the world of Raspberry Pi robotics By the end of it you'll have built a biped robot that can interact with its environment This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Raspberry Pi By Example by Ashwin Pajankar and Arush Kakkar Building a Home Security System with Raspberry Pi by Matthew Pole Raspberry Pi Robotics Essentials by Richard Grimmett

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