

# Magpi 65 Raspberry Pi Foundation

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## HEATH MATHEWS

*Raspberry Pi Technology* John Wiley & Sons

The Raspberry Pi is an inexpensive, simple computer that's about the size of a credit card. At first glance, it looks like a simple circuit board with a few inputs and outputs, but the Raspberry Pi is actually a computer with multiple inputs and outputs that make it the foundation for an almost limitless number of projects - from creating a wireless internet streaming radio, to creating a wi-fi hot spot, to creating elaborate, programmed LED light shows - it's all been done. The real power of the RPi is that it's simple, cheap, and users can build all kinds of useful and fun projects using a few simple tools, some basic programming, and a ton of imagination. *Idiot's Guides: Raspberry Pi* is the perfect beginner book for learning how the Raspberry Pi works, how to program it, how to connect it to existing devices to enhance or even hack their existing functionality, and how to put together some basic first projects from scratch. Readers will learn how to download and use the right software for the job, how to program using Scratch (a basic language for programming Linux), and how to come up with their own crazy project ideas for creating virtually anything that requires nothing more than processing power from a simple computer.

*Raspberry Pi* Raspberry Pi Press

Raspberry Pi is a small, clever, British-built computer that's packed with potential. Made using a desktop-class, energy-efficient processor, Raspberry Pi is designed to help you learn coding, discover how computers work, and build your own amazing things. This book was written to show you just how easy it is to get started. Learn how to: Set up your Raspberry Pi, install its operating system, and start using this fully functional computer. Start coding projects, with step-by-step guides using the Scratch 3, Python, and MicroPython programming languages. Experiment with connecting electronic components, and have fun creating amazing projects. This revised edition is updated for the latest Raspberry Pi computers: Raspberry Pi 5 and Raspberry Pi Zero 2 W as well as the latest Raspberry Pi OS. It also includes a new chapter on the Raspberry Pi Pico! Whichever model you have, a standard Raspberry Pi board; the compact Raspberry Pi Zero 2 W; or the Raspberry Pi 400 with integrated keyboard, this affordable computer can be used to learn coding, build robots, and create all kinds of weird and wonderful projects. If you want to make games, build robots, or hack a variety of amazing projects, then this book is here to help you get started.

*Raspberry Pi 4 Programming Made Simple for Beginners* John Wiley & Sons

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Gain the skills needed to create a hi-tech home—affordably and easily This hands-on guide shows, step by step, how to use the powerful Raspberry Pi for home automation. Written in an easy-to-follow style, the book features DIY projects for Amazon Echo, Google Home, smart lightbulbs and thermostats, and more. Home Automation with Raspberry Pi: Projects Using Google Home, Amazon Echo, and Other Intelligent Personal Assistants lays out essential skills for hobbyists and makers of all ages and experience levels. You will discover how to build gadgets that can work in conjunction with—or in some cases replace—commercially available smart home products. Inside, you'll learn how to:

- Design and build custom home automation devices
- Interface a Google Home device to your Raspberry Pi
- Connect Google Voice Assistant to RasPi
- Incorporate GPIO control using the Amazon Echo
- Navigate home automation operating systems
- Use Z-Wave in your RasPi HA projects
- Apply fuzzy logic techniques to your projects
- Work with sensors and develop home security systems
- Utilize two open-source AI applications, Mycroft and Piccroft
- Tie your projects together to create an integrated home automation system

*Raspberry Pi* Dorling Kindersley Ltd

*Managing Risk and Information Security: Protect to Enable*, an ApressOpen title, describes the changing risk environment and why a fresh approach to information security is needed. Because almost every aspect of an enterprise is now dependent on technology, the focus of IT security must shift from locking down assets to enabling the business while managing and surviving risk. This compact book discusses business risk from a broader perspective, including privacy and regulatory considerations. It describes the increasing number of threats and vulnerabilities, but also offers strategies for developing solutions. These include discussions of how enterprises can take advantage of new and emerging technologies—such as social media and the huge proliferation of Internet-enabled devices—while minimizing risk. With ApressOpen, content is freely available through multiple online distribution channels and electronic formats with the goal of disseminating professionally edited and technically reviewed content to the worldwide community. Here are some of the responses from reviewers of this exceptional work: “*Managing Risk and Information Security* is a perceptive, balanced, and often thought-provoking exploration of evolving information risk and security challenges within a business context. Harkins clearly connects the needed, but often-overlooked linkage and dialog between the business and technical worlds and offers actionable strategies. The book contains eye-opening security insights that are easily understood, even by the curious layman.” Fred Wettling, Bechtel Fellow, IS&T Ethics & Compliance Officer, Bechtel “As disruptive technology innovations and escalating cyber threats continue to create enormous information security challenges, *Managing Risk and Information Security: Protect to Enable* provides a much-needed perspective. This book compels information security professionals to think differently about concepts of risk management in order to be more effective. The specific and practical guidance offers a fast-track formula for developing information security strategies which are lock-step with business priorities.” Laura Robinson, Principal, Robinson Insight Chair, Security for Business Innovation Council (SBIC) Program Director, Executive Security Action Forum (ESAF) “The mandate of the information security function is being completely rewritten. Unfortunately most heads of security haven't picked up on the change, impeding their companies' agility and ability to innovate. This book makes the case for why security needs to change, and shows how to get started. It will be regarded as marking the turning point in information security for years to come.” Dr. Jeremy Bergsman, Practice Manager, CEB “The world we are responsible to protect is changing dramatically and at an accelerating pace. Technology is pervasive in virtually every aspect of our lives. Clouds, virtualization and mobile are redefining computing - and they are just the beginning of what is to come. Your security perimeter is defined by wherever your information and people happen to be. We are attacked by professional adversaries who are better funded than we will ever be. We in the information security profession must change as dramatically as the environment we

protect. We need new skills and new strategies to do our jobs effectively. We literally need to change the way we think. Written by one of the best in the business, *Managing Risk and Information Security* challenges traditional security theory with clear examples of the need for change. It also provides expert advice on how to dramatically increase the success of your security strategy and methods - from dealing with the misperception of risk to how to become a Z-shaped CISO. *Managing Risk and Information Security* is the ultimate treatise on how to deliver effective security to the world we live in for the next 10 years. It is absolute must reading for anyone in our profession - and should be on the desk of every CISO in the world.” Dave Cullinane, CISSP CEO Security Starfish, LLC “In this overview, Malcolm Harkins delivers an insightful survey of the trends, threats, and tactics shaping information risk and security. From regulatory compliance to psychology to the changing threat context, this work provides a compelling introduction to an important topic and trains helpful attention on the effects of changing technology and management practices.” Dr. Mariano-Florentino Cuéllar Professor, Stanford Law School Co-Director, Stanford Center for International Security and Cooperation (CISAC), Stanford University “Malcolm Harkins gets it. In his new book Malcolm outlines the major forces changing the information security risk landscape from a big picture perspective, and then goes on to offer effective methods of managing that risk from a practitioner's viewpoint. The combination makes this book unique and a must read for anyone interested in IT risk.” Dennis Devlin AVP, Information Security and Compliance, The George Washington University “*Managing Risk and Information Security* is the first-to-read, must-read book on information security for C-Suite executives. It is accessible, understandable and actionable. No sky-is-falling scare tactics, no techno-babble - just straight talk about a critically important subject. There is no better primer on the economics, ergonomics and psycho-behaviourals of security than this.” Thornton May, Futurist, Executive Director & Dean, IT Leadership Academy “*Managing Risk and Information Security* is a wake-up call for information security executives and a ray of light for business leaders. It equips organizations with the knowledge required to transform their security programs from a “culture of no” to one focused on agility, value and competitiveness. Unlike other publications, Malcolm provides clear and immediately applicable solutions to optimally balance the frequently opposing needs of risk reduction and business growth. This book should be required reading for anyone currently serving in, or seeking to achieve, the role of Chief Information Security Officer.” Jamil Farschi, Senior Business Leader of Strategic Planning and Initiatives, VISA “For too many years, business and security - either real or imagined - were at odds. In *Managing Risk and Information Security: Protect to Enable*, you get what you expect - real life practical ways to break logjams, have security actually enable business, and marries security architecture and business architecture. Why this book? It's written by a practitioner, and not just any practitioner, one of the leading minds in Security today.” John Stewart, Chief Security Officer, Cisco “This book is an invaluable guide to help security professionals address risk in new ways in this alarmingly fast changing environment. Packed with examples which makes it a pleasure to read, the book captures practical ways a forward thinking CISO can turn information security into a competitive advantage for their business. This book provides a new framework for managing risk in an entertaining and thought provoking way. This will change the way security professionals work with their business leaders, and help get products to market faster. The 6 irrefutable laws of information security should be on a stone plaque on the desk of every security professional.” Steven Proctor, VP, Audit & Risk Management, Flextronics

*Code the Classics Volume I* Lulu.com

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.

*The Official Raspberry Pi Handbook 2025* No Starch Press

This book is for musical makers and artists who want to gain knowledge and inspiration for your own amazing creations. “Grumpy Mike” Cook, co-author of several books on the Raspberry Pi and frequent answerer of questions of the Arduino forums, brings you a fun and instructive mix and simple and complex projects to help you understand how the Arduino can work with the MIDI system to create musical instruments and manipulate sound. In Part I you'll find a set of projects to show you the possibilities of MIDI plus Arduino, covering both the hardware and software aspects of creating musical instruments. In Part II, you learn how to directly synthesize a wave form to create your own sounds with Arduino and concludes with another instrument project: the SpoonDuino. Finally, in Part III, you'll learn about signal processing with the Arduino Uno and the Due — how to create effects like delay, echo, pitch changes, and realtime backwards audio output. /div If you want to learn more about how to create music, instruments, and sound effects with Arduino, then get on board for Grumpy Mike's grand tour with *Arduino Music and Sound Projects*.

*Raspberry Pi :the Ultimate Step by Step Raspberry Pi User Guide (the Updated Version )* Apress

"Raspberry Pi is a small, clever, British-built computer that's packed with potential. Made using a desktop-class, energy-efficient processor, Raspberry Pi is designed to help you learn coding, discover how computers work, and build your own amazing things. This book was written to show you just how easy it is to get started. Learn how to set up your Raspberry Pi, install its operating system, and start using this fully functional computer. Start coding projects, with step-by-step

guides using the Scratch 3, Python, and MicroPython programming languages. Experiment with connecting electronic components, and have fun creating amazing projects. This revised edition is updated for the latest Raspberry Pi computers: Raspberry Pi 5 and Raspberry Pi Zero 2 W as well as the latest Raspberry Pi OS. It also includes a new chapter on the Raspberry Pi Pico!"--Publisher's description.

**Control Your Home with Raspberry Pi** Raspberry Pi Press

Raspberry Pi : The Ultimate Step by Step Guide Raspberry Pi User Guide (the updated version) gets you up and running on Raspberry Pi, whether you're an educator, hacker, hobbyist, or kid. Learn how to connect your Pi to other hardware, install software, write basic programs, and set it up to run robots, multimedia centers, and more. Gets you up and running on Raspberry Pi, a high-tech computer the size of a credit card .Covers connecting Raspberry Pi to other hardware, such as monitors and keyboards, how to install software, and how to configure Raspberry Pi Shows you how to set up Raspberry Pi as a simple productivity computer, write basic programs in Python, connect to servos and sensors, and drive a robot or multimedia center . Adults, kids, and devoted hardware hackers, now that you've got a Raspberry Pi, get the very most out of it with Raspberry Pi : The Ultimate Step by Step Guide Raspberry Pi User Guide (the updated version) .

**Raspberry Pi Projects** Raspberry Pi Press

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](http://magpi.cc/legacy) for more information.

**Python Programming with Raspberry Pi** McGraw Hill Professional

Learn the Raspberry Pi 3 from the experts! Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3. Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon. Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery.

**Raspberry Pi For Dummies** Packt Publishing Ltd

Program a graphical adventure game in this hands-on, beginner-friendly introduction to coding in the Python language. Launch into coding with Mission Python, a space-themed guide to building a complete computer game in Python. You'll learn programming fundamentals like loops, strings, and lists as you build Escape!, an exciting game with a map to explore, items to collect, and tricky logic puzzles to solve. As you work through the book, you'll build exercises and mini-projects, like making a spacewalk simulator and creating an astronaut's safety checklist that will put your new Python skills to the test. You'll learn how to use Pygame Zero, a free resource that lets you add graphics and sound effects to your creations, and you'll get useful game-making tips, such as how to design fun puzzles and intriguing maps. Before you know it, you'll have a working, awesome game to stump your friends with (and some nifty coding skills, too!). You can follow this book using a Raspberry Pi or a Microsoft Windows PC, and the 3D graphics and sound effects you need are provided as a download.

**Learning Computer Architecture with Raspberry Pi** John Wiley & Sons

Discover the true potential of Raspberry Pi with the official Handbook 2023. With over 200 pages of amazing projects, fun tutorials, practical guides, and clear reviews, it has everything you need to master Raspberry Pi! Updated for 2023, this guide is packed with information on the latest models, including Raspberry Pi Zero 2 W and Raspberry Pi Pico W. In this 2023 handbook, you'll find: QuickStart guide to setting up your Raspberry Pi computer and using it. Everything you need to know about Raspberry Pi Pico & Pico W. Incredible projects built by the global Raspberry Pi community. Find the right kit and products for your dream builds. Get creating with our comprehensive tutorials and guides. We've carefully selected projects to show off the broad range of uses Raspberry Pi and Pico can have, whether you're just starting out with a little coding, or looking for your next big project. I believe something in here will truly inspire you make something wonderful.

**The Official Raspberry Pi Handbook 2024** Apress

The essential preview guide to getting started with Raspberry Pi ® computing and programming Originally conceived of as a fun, easy way for kids (and curious adults) to learn computer programming, the Raspberry Pi quickly evolved into a remarkably robust, credit-card-size computer that can be used for everything from playing HD videos and hacking around with hardware to learning to program! Co-authored by one of the creators of the Raspberry Pi, this special preview eBook fills you in on everything you need to know to get up and running on your Raspberry Pi in no time, including how to: • Connect to a keyboard, mouse, monitor and other peripherals • Install software • Master basic Linux system administration • Configure your Raspberry Pi • Connect to wired or wireless networks • Diagnose and troubleshoot common problems • Use the GPIO port to flash an LED or read a button Meet the Raspberry Pi provides a sneak peek preview of how to make the most out of the world's first truly compact computer.

**Raspberry Pi User Guide** Speedy Publishing LLC

Understanding the Basics of Raspberry Pi is a text written by a very enthusiastic author that loves technology and wants to share it with as many people as he possibly can. Though he is aware that almost everyone has some sort of computer or Smartphone he is aware that there are many other

things that he can share about many new technological advances that have been made. One such thing is the Raspberry Pi technology. It may be more popular in Europe but is slowly making its way over to the United States and other countries. It is an insightful text that can help any young techno to learn as much as they possibly can about that form of technology and how to put it together on their own if they are that capable. The text is written in simple terms and anyone can understand it quite easily.

**Mission Python** Raspberry Pi Press

The Official Raspberry Pi Handbook 2024 is packed with all the information beginners need to use their new Raspberry Pi computer. Inside, you'll also find the best projects from the past year for long-term Raspberry Pi enthusiasts. With a special section on Raspberry Pi 5, the latest and greatest in the Raspberry Pi microcomputer line, you'll learn how to code and make with this incredible computer. We've also got plenty of tutorials and projects for the Raspberry Pi Pico and Pico W, the smallest members of the Raspberry Pi family. In this 2024 handbook, you'll find: A getting started guide for every Raspberry Pi model. Everything you need to know about the brand new Raspberry Pi 5. Inspiring projects for your next build idea. Tips on having some serious fun with electronics. Our super-simple robotics tutorial to get you started with your own robots. A guide to playing retro games with the diminutive Raspberry Pi Pico. We also have plenty of things you can do with Raspberry Pi 4, Raspberry Pi Zero 2 W, and Raspberry Pi Pico W squeezed into these 200 pages. With the latest reviews, tutorials, project showcases, guides, and much more, this is your ultimate resource for Raspberry Pi!

**Home Automation with Raspberry Pi: Projects Using Google Home, Amazon Echo, and Other Intelligent Personal Assistants** Packt Publishing Ltd

Embrace the exciting new technology of Raspberry Pi! With the invention of the unique credit-card sized single-board computer, the Raspberry Pi, comes a new wave of hardware geeks, hackers, and hobbyists who are excited about the possibilities of the Raspberry Pi, and this is the perfect guide to get you started in this exhilarating new arena. With this fun and friendly book, you'll quickly discover why the supply for the Pi cannot keep up with the demand! Veteran tech authors Sean McManus and Mike Cook show you how to download and install the operating system, use the installed applications, and much more. Covers connecting the Pi to other devices such as a keyboard, mouse, monitor, and more Teaches you basic Linux System Admin Walks you through editing images, creating web pages, and playing music Details how to program with Scratch and Python Explores creating simple hardware projects Raspberry Pi For Dummies makes computing as easy as pie. Now discover the history of Raspberry Pi! The Raspberry Pi sold a million units in its first year, and came from a previously unknown organisation, The Raspberry Pi Foundation. If you've ever wondered how it came into being, and what inspired its creation, Sean McManus, co-author of Raspberry Pi For Dummies, has the answer. He has set up a section on his website to share bonus content, which includes a short history of the Raspberry Pi. At Sean's website, you can also read reviews of the book, see videos of its projects, and read several exclusive blog posts about the Raspberry Pi and its community. Visit Sean's homepage for Raspberry Pi For Dummies here!

**The Valley of Kashmir** Apress

Learn to build software and hardware projects featuring the Raspberry Pi! Congratulations on becoming a proud owner of a Raspberry Pi! Following primers on getting your Pi up and running and programming with Python, the authors walk you through 16 fun projects of increasing sophistication that let you develop your Raspberry Pi skills. Among other things you will: Write simple programs, including a tic-tac-toe game Re-create vintage games similar to Pong and Pac-Man Construct a networked alarm system with door sensors and webcams Build Pi-controlled gadgets including a slot car racetrack and a door lock Create a reaction timer and an electronic harmonograph Construct a Facebook-enabled Etch A Sketch-type gadget and a Twittering toy Raspberry Pi Projects is an excellent way to dig deeper into the capabilities of the Pi and to have great fun while doing it.

**Raspberry Pi Hardware Projects 2** No Starch Press

Annotation The Raspberry Pi Foundation aims to promote the teaching of Computer Science and released the first Raspberry Pi device in February 2012. It is often referred to as a Single Board Computer (SBC), meaning that it runs a full operating system and has sufficient peripherals to start execution without additional hardware. Although other Single Board Computers (SBC) existed before, the Raspberry Pi Foundation made the SBC accessible to almost anyone, introducing not just a low-cost computer, but one that can bridge the gap to the physical world via standard electronic interfaces; controlled programmatically from the operating system. This has led to the popularity of the Raspberry Pi, not only in education but with industry, hobbyists, prototype builders, gamers and the curious, and it has enabled people to experiment in new ways. In this book, we show how the Raspberry Pi is being used for specific research prototypes; to construct testbeds; applied to Internet of Things applications, as well as educational contexts.

**Simple Electronics with GPIO Zero** John Wiley & Sons

DIY hardware hacking...easy as Pi @! Raspberry Pi is taking off like a rocket! You can use this amazing, dirt-cheap, credit card-sized computer to learn powerful hardware hacking techniques as you build incredibly creative and useful projects! This complete, full-color guide requires absolutely no experience with either hardware hacking or computer programming. Colorful photos guide you through each project, and the step-by-step instructions are stunningly clear and easy! 1. Start with the absolute basics: Discover why millions of people are so passionate about the Pi! Tour the hardware, including storage, connections, and networking Install and run Raspbian, Raspberry Pi's Linux-based operating system Manage devices and configuration files Network Raspberry Pi and add Wi-Fi Program Raspberry Pi using Python, Scratch, XHTML, PHP, and MySQL 2. Next, build all these great projects: Media Center Retro Console Video Game Station Minecraft Server Web Server Portable Webcam Security & Privacy Device 3. Then, master all these cutting-edge techniques: Overclock Raspberry Pi for better performance Link Raspberry Pi to the Arduino and Arduino clones, including the AlaMode and the Gertboard Use the Pi to build electronics prototypes using a breadboard.

**Arduino Music and Audio Projects** John Wiley & Sons

Create your own car engine control unit (ECU) with a simple Raspberry Pi while building the necessary skills to produce future more advanced projects. Once you've worked through the projects in this book, you'll have a smart car and the coding knowledge needed to develop advanced hardware and software projects. Start by understanding how the Pi works, and move on to how to build hardware projects, use the GPIO pins, and install the system. Then add to that a solid understanding of software development principles and best practices, along with a good grasp of Python (v3.6+) and Python/software best practices. More than just how to code in Python, you'll learn what it takes to write production grade software, defensive code, testing, deployments, version control, and more. Internalize industry best practices while going further with valuable software development techniques such as defensive programming. The concepts introduced are essential to ensuring that software can function under unexpected circumstances. Can you imagine what would happen if your mobile phone could not cope with a call from an unknown number, or you had to set you microwave in increments of 6 seconds? While testing avoids edge cases such as these, defensive programming is one of the building blocks of software development. What You'll Learn Hone test driven development in Python skills Debug software and hardware project

installations Work with the GPIO ports of the Pi to feed your software real-world hardware

information Who This Book Is For People who like working on cars and want to learn Raspberry Pi and software development but don't know where to start.