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Arduino Robotic Projects

Build awesome and complex robots with the power of Arduino

Richard Grimmett

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Grimmett,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

DescriptionThis 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 Robotics Essentials* Richard Grimmatt,2015-06-19

If you are a programmer with an interest in building advanced robotics projects using inexpensive hardware and open source software then this book is for you Some experience with computer programming and implementing simple mechanical systems is required *Mastering BeagleBone Robotics* Richard Grimmatt,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 Robotic Projects - Third Edition** Richard Grimmett,2016-10-11 Work through a mix of amazing robotic projects using the Raspberry Pi Zero or the Raspberry Pi 3About 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 homeWho This Book Is ForThis 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 distanceIn DetailThis 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 approachThis fun and practical tutorial contain 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

BeagleBone Robotic Projects - Second Edition

Richard Grimmett,2017-06-13 Exciting new capabilities to enable even easier DIY robotics with BeagleBone BlueAbout This Book 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 devicesWho This Book Is ForThis 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 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 waterIn DetailBeagleBone 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 Style and approachDevelop practical example projects with detailed explanations combine the projects in a vast number of ways to create different robot designs or work through them in sequence to discover the full capability of the BeagleBone Blue **Arduino Essentials** Francis Perea,2015-02-24 If you are a hobbyist who wants to develop projects based on Arduino as the main microcontroller platform or an engineer interested in finding out what the Arduino platform offers then this book is ideal for you Some prior knowledge of the C programming language is required **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

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