



Community Experience Distilled

Arduino Robotic Projects

Build awesome and complex robots with the power of Arduino

Richard Grimmett

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Arduino Robotic Projects Grimmatt Richard

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Arduino Robotic Projects Richard Grimmatt,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 **Arduino Robotic**

Projects Richard Grimmatt,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 Raspberry Pi Robotic Projects Richard

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 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 **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 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 Description BeagleBone 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

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 Arduino for Secret Agents

Marco Schwartz,2015-11-20 Transform your tiny Arduino device into a secret agent gadget to build a range of espionage projects with this practical guide for hackers About This Book Discover the limitless possibilities of the tiny Arduino and build

your own secret agent projects From a fingerprint sensor to a GPS Tracker and even a robot learn how to get more from your Arduino Build nine secret agent projects using the power and simplicity of the Arduino platform Who This Book Is For This book is for Arduino programmers with intermediate experience of developing projects and who want to extend their knowledge by building projects for secret agents It would also be great for other programmers who are interested in learning about electronics and programming on the Arduino platform What You Will Learn Get to know the full range of Arduino features so you can be creative through practical projects Discover how to create a simple alarm system and a fingerprint sensor Find out how to transform your Arduino into a GPS tracker Use the Arduino to monitor top secret data Build a complete spy robot Build a set of other spy projects such as Cloud Camera and Microphone System In Detail Q might have Bond's gadgets but he doesn't have an Arduino not yet at least Find out how the tiny Arduino microcomputer can be used to build an impressive range of neat secret agent projects that can help you go undercover and get to grips with the cutting edge of the world of espionage with this book created for ardent Arduino fans and anyone new to the powerful device Each chapter shows you how to construct a different secret agent gadget helping you to unlock the full potential of your Arduino and make sure you have a solution for every tricky spying situation You'll find out how to build everything from an alarm system to a fingerprint sensor each project demonstrating a new feature of Arduino so you can build your expertise as you complete each project Learn how to open a lock with a text message monitor top secret data remotely and even create your own Arduino Spy Robot Spy Microphone System and Cloud Spy Camera This book isn't simply an instruction manual it helps you put your knowledge into action so you can build every single project to completion Style and approach This practical reference guide shows you how to build various projects with step by step explanations on each project starting with the assembly of the hardware followed by basic tests of all those hardware components and finally developing project on the hardware

[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

Learning JavaScript Robotics Kassandra Perch, 2015-11-25 Design build and program your own remarkable robots with JavaScript and open source hardware About This Book Learn how to leverage Johnny Five's Read Eval Print Loop and Event API to write robot code with JavaScript Unlock a world of exciting possibilities by hooking your JavaScript programmed robots up to the internet and using external data and APIs Move your project code from the Arduino Uno to a multitude of other robotics

platforms Who This Book Is For If you've worked with Arduino before or are new to electronics and would like to try writing sketches in JavaScript then this book is for you Basic knowledge of JavaScript and Node.js will help you get the most out of this book What You Will Learn Familiarise yourself with Johnny Five Read Eval and Print Loop REPL to modify and debug robotics code in real time Build robots with basic output devices to create projects that light up make noise and more Create projects with complex output devices and employ the Johnny Five API to simplify the use of components that require complex interfaces such as I2C Make use of sensors and input devices to allow your robotics projects to survey the world around them and accept input from users Use the Sensor and Motor objects to make it much easier to move your robotics projects Learn about the Animation API that will allow you to program complex movements using timing and key frames Bring in other devices to your Johnny Five projects such as USB devices and remotes Connect your Johnny Five projects to external APIs and create your own Internet of Things In Detail There has been a rapid rise in the use of JavaScript in recent times in a variety of applications and JavaScript robotics has seen a rise in popularity too Johnny Five is a framework that gives NodeBots a consistent API and platform across several hardware systems This book walks you through basic robotics projects including the physical hardware builds and the JavaScript code for them You'll delve into the concepts of Johnny Five and JS robotics You'll learn about various components such as Digital GPIO pins PWM output pins Sensors servos and motors to be used with Johnny Five along with some advanced components such as I2C and SPI You will learn to connect your Johnny Five robots to internet services and other NodeBots to form networks By the end of this book you will have explored the benefits of the Johnny Five framework and the many devices it unlocks Style and approach This step by step guide to the Johnny Five ecosystem is explained in a conversational style packed with examples and tips Each chapter also explores the Johnny Five documentation to enable you to start exploring the API on your own

Internet of Things with Arduino

Blueprints Pradeeka Seneviratne, 2015-10-27 Develop interactive Arduino based Internet projects with Ethernet and WiFi About This Book Build Internet based Arduino devices to make your home feel more secure Learn how to connect various sensors and actuators to the Arduino and access data from Internet A project based guide filled with schematics and wiring diagrams to help you build projects incrementally Who This Book Is For This book is intended for those who want to learn more about Arduino and make Internet based interactive projects with Arduino If you are an experienced software developer who understands the basics of electronics then you can quickly learn how to build the Arduino projects explained in this book What You Will Learn Make a powerful Internet controlled relay with an embedded web server to monitor and control your home electrical appliances Build a portable Wi-Fi signal strength sensor to give haptic feedback about signal strength to the user Measure water flow speed and volume with liquid flow sensors and record real time readings Secure your home with motion activated Arduino security cameras and upload images to the cloud Implement real time data logging of a solar panel voltage with Arduino cloud connectors Track locations with GPS and upload location data to the cloud Control a garage door

light with your Twitter feed Control infrared enabled devices with IR remote and Arduino In Detail Arduino is a small single chip computer board that can be used for a wide variety of creative hardware projects The hardware consists of a simple microcontroller board and chipset It comes with a Java based IDE to allow creators to program the board Arduino is the ideal open hardware platform for experimenting with the world of the Internet of Things This credit card sized Arduino board can be used via the Internet to make more useful and interactive Internet of things projects Internet of Things with Arduino Blueprints is a project based book that begins with projects based on IoT and cloud computing concepts This book covers up to eight projects that will allow devices to communicate with each other access information over the Internet store and retrieve data and interact with users creating smart pervasive and always connected environments It explains how wired and wireless Internet connections can be used with projects and the use of various sensors and actuators The main aim of this book is to teach you how Arduino can be used for Internet related projects so that users are able to control actuators gather data from various kinds of sensors and send and receive data wirelessly across HTTP and TCP protocols Finally you can use these projects as blueprints for many other IoT projects and put them to good use By the end of the book you will be an expert in the use of IoT with Arduino to develop a set of projects that can relate very well to IoT applications in the real world Style and approach Every chapter in this book clearly explains how to assemble components through easy to follow steps on while laying out important concepts code snippets and expected output results so that you can easily end up with a successful project where you can also enhance or modify the project according to your requirements

Building Wireless Sensor Networks Using Arduino Matthijs Kooijman, 2015-10-19 Leverage the powerful Arduino and XBee platforms to monitor and control your surroundings About This Book Build your own low power wireless network using ready made Arduino and XBee hardware Create a complex project using the Arduino prototyping platform A guide that explains the concepts and builds upon them with the help of examples to form projects Who This Book Is For This book is targeted at embedded system developers and hobbyists who have some working knowledge of Arduino and who wish to extend their projects using wireless connectivity What You Will Learn Interact with XBee boards using the XCTU program on Windows OS X or Linux Make your Arduino boards communicate wirelessly using XBee modules in the advanced API mode Centrally collect and store measured sensor data in the cloud or your own database Connect the coordinator Arduino to the Internet and send data to web services Control your environment automatically based on sensor input from your network Interact with off the shelf ZigBee Home Automation devices Make your devices battery powered and let them sleep to get months or even years of battery life In Detail Arduino has been established as the de facto standard microcontroller programming platform being used for one off do it yourself projects as well as prototypes for actual products By providing a myriad of libraries the Arduino community has made it very easy to interact with pretty much any piece of hardware out there XBee offers a great range of low power wireless solutions that are easy to work with by taking all of the complexity of wireless

mesh networking out of your hands and letting you focus on what to send without worrying about the how Building wireless sensor networks is cost effective as well as efficient as it will be done with Arduino support The book starts with a brief introduction to various wireless protocols concepts and the XBee hardware that enables their use Then the book expands to explain the Arduino boards to you letting them read and send sensor data collect that data centrally and then even control your home from the Internet Moving further more advanced topics such as interacting through the standard Zigbee Home Automation protocol or making your application power efficient are covered By the end of the book you will have all the tools needed to build complete real world solutions Style and approach A hands on guide featuring a single home automation project that can be built as described or with endless variations Every step is illustrated with complete examples and screenshots allowing you to build the examples swiftly

Intel Galileo Blueprints Marco Schwartz,2015-06-25 The Intel Galileo board was designed to add the power of an Intel processor to the simplicity of the Arduino platform Intel Galileo gives you the freedom to create a wide range of DIY projects Intel Galileo Blueprints will be a detailed guide that covers several projects based on the Intel Galileo board exploiting the full potential of the board You will first go through how to set up the development environment for the Galileo board Next you will connect different kinds of sensors to the Galileo board and learn how to use the SD card reader of the board You will then connect actuators to the Galileo board like a relay and a servomotor and write simple software to control these components Later you will access the Galileo board remotely in order to monitor the measurements done by the board and send the measured data to a Twitter feed at regular intervals Finally you will move on to more advanced topics such as building a complete home automation system building a mobile robot controlled by the Intel Galileo board and computer vision applications such as face recognition

Learning Robotics Using Python Lentin Joseph,2015-05-27 If you are an engineer a researcher or a hobbyist and you are interested in robotics and want to build your own robot this book is for you Readers are assumed to be new to robotics but should have experience with Python

Raspberry Pi Robotic Blueprints Richard Grimmer,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

Monitoreo, control y adquisición de datos con arduino y visual basic .net Rubén Oliva Ramos,2020-05-20 Este libro est dirigido a los estudiantes de las carreras de Mecatr nica Electr nica y Sistemas interesados en integrar la plataforma de Arduino con la herramienta de programaci n NET En esta obra se explica paso a paso cada uno de los proyectos incluidos de forma que no es necesario que el estudiante conozca a fondo la plataforma de Arduino Adem s s lo se requieren conocimientos b sicos de programaci n y electr nica Conozca el material el c digo y las librer as necesarias para el desarrollo de proyectos de monitoreo control y adquisici n de datos Desarrolle proyectos que integren la plataforma de Arduino con la herramienta de programaci n Visual Basic NET Realice las pr cticas presentadas en cada uno de los proyectos del libro En la parte inferior de la primera p gina del libro encontrar el c digo de acceso que le permitir acceder de forma gratuita a los contenidos adicionales del libro en www.marcombo.info Rub n Oliva Ramos Ingeniero en Sistemas Computacionales por el Instituto Tecnol gico de Le n Maestro en Ingenier a de Sistemas Electr nicos y Computacionales por la Universidad de la Salle Baj o en Le n Guanajuato Especialista en teleinform tica y redes por la Universidad de la Salle Baj o en Le n Guanajuato y desde 2008 es docente en la Universidad de La Salle Baj o a nivel posgrado en la Especialidad en Mecatr nica y en la maestr a en Dise o e Ingenier a de Sistemas Mecatr nicos [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 devices 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 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 In Detail BeagleBone 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 approach Develop 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

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 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 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

Getting Started with 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 communicate with the world around it by adding speech output Control the robot from a distance and see what the robot is seeing by adding wireless communication Discover how to build a Robotic hand and a Quadcopter

In Detail Raspberry Pi Zero is half the size of Raspberry Pi A only with twice the utility At just three centimeters wide it packs in every utility required for full fledged computing tasks This practical tutorial will help you quickly get up and running with Raspberry Pi Zero to control hardware and software and write simple programs and games You will learn to build creative programs and exciting games with little or no programming experience We cover all the features of Raspberry Pi Zero as you discover how to configure software and hardware and control external devices You will find out how to navigate your way in Raspbian write simple Python scripts and create simple DIY programs

Style and approach This is a practical and fun getting started tutorial that will guide you through everything new that the Raspberry Pi has to offer

Arduino Robotic Projects Grimmiett Richard Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Arduino Robotic Projects Grimmiett Richard**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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Arduino Robotic Projects Grimmert Richard Introduction

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