



Community Experience Distilled

# BeagleBone Robotic Projects

Create complex and exciting robotic projects with  
the BeagleBone Black

Richard Grimmett

[PACKT]  
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# Beaglebone Robotic Projects Grimmert Richard

**Jin-Ying Zhang**



## **Beaglebone Robotic Projects Grimmatt Richard:**

**BeagleBone Robotic Projects** Richard Grimmatt,2013-12-26 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 Black This book is for anyone who is curious about using new low cost hardware to create robotic projects that 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 **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 Grimmatt,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](#) 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 [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 **BeagleBone: Creative Projects for Hobbyists** Charles Hamilton,Rodolfo Giometti,Richard Grimmett,2017-07-20 Learn to build amazing robotic projects using the powerful BeagleBone Black About This Book Push your creativity to the limit through complex diverse and fascinating projects Develop applications with the BeagleBone Black and open source Linux software Sharpen your expertise in making sophisticated electronic devices Who This Book Is For This Learning Path is aimed at hobbyists who want to do creative projects that make their life easier and also push the boundaries of what can be done with the BeagleBone Black This Learning Path s projects are for the aspiring maker casual programmer and budding engineer or tinkerer You ll need some programming knowledge and experience of working with mechanical systems to get the complete experience from this Learning Path What You Will Learn Set up and run the BeagleBone Black for the first time Get to know the basics of microcomputing and Linux using the command line and easy kernel mods Develop a simple web interface with a LAMP platform Prepare complex web interfaces in JavaScript and get to know how to stream

video data from a webcam Find out how to use a GPS to determine where your sailboat is and then get the bearing and distance to a new waypoint Use a wind sensor to sail your boat effectively both with and against the wind Build an underwater ROV to explore the underwater world See how to build an autonomous Quadcopter In Detail BeagleBone is a microboard PC that runs Linux It can connect to the Internet and run OSes such as Android and Ubuntu You can transform this tiny device into a brain for an embedded application or an endless variety of electronic inventions and prototypes This Learning Path starts off by teaching you how to program the BeagleBone You will create introductory projects to get yourselves acquainted with all the nitty gritty Then we ll focus on a series of projects that are aimed at hobbyists like you and encompass the areas of home automation and robotics With each project we ll teach you how to connect several sensors and an actuator to the BeagleBone Black We ll also create robots for land sea and water Yes really The books used in this Learning Path are BeagleBone Black Cookbook BeagleBone Home Automation Blueprints Mastering BeagleBone Robotics Style and approach This practical guide transforms complex and confusing pieces of technology to become accessible with easy to succeed instructions Through clear concise examples you will quickly get to grips with the core concepts needed to develop home automation applications with the BeagleBone Black

**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

**Raspberry Pi Robotics Essentials** Richard Grimmett,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

[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 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 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: Creative Projects for Hobbyists** Charles Hamilton, 2017

**Learning BeagleBone Python Programming** Alexander Hiam, 2015-07-14 BeagleBone is a barebone computer that can be configured and customized for different applications and is almost half the price of a standard computer This book will cover the basics of how BeagleBone Black s hardware interface subsystems work and can be controlled using two popular Python libraries for BeagleBone Black You will be introduced to BeagleBone Black s GPIO PWM ADC UART SPI I2C and eQEP subsystems We will then dive deep into more complex built in peripherals demonstrating different ways to receive input from a user including buttons potentiometers and rotary encoders with the eQEP module We will also learn about interfacing with external devices this will be demonstrated using the serial modules to interface with external devices such as temperature sensors and accelerometers Towards the end of the book we will present a couple of real world problems and demonstrate how to solve them with the skills you ve acquired

**BeagleBone Media Center** David Lewin, 2015-01-31 Whether you are a hobbyist or a professional this book will get you fully equipped to resolve the most commonly occurring media related challenges If you want to expand your horizons beyond lighting an LED and push the limits of your board this is just the book for you Working knowledge of BeagleBone is assumed

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

Getting Started with Electronic Projects Bill Pretty, 2015-01-13 This book is aimed at hobbyists with basic knowledge of electronics circuits Whether you are a novice electronics project builder a ham radio enthusiast or a BeagleBone tinkerer you will love this book

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 aweome 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 robotIn DetailLooking 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 devoped 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 GrimmerStyle and approachIt 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 Projects** ,2014

*JavaScript Robotics* Backstop Media,Rick Waldron,Pawel Szymczykowski,Raquel Velez,Julian David Duque,Anna Gerber,Emily Rose,Susan Hinton,Jonathan Beri,Donovan Buck,Sara Gorecki,Kassandra Perch,Andrew Fisher,David Resseguie,Lyza Danger Gardner,Bryan Hughes,2015-04-13 JavaScript Robotics is on the rise Rick Waldron the lead author of this book and creator of the Johnny Five platform is at the forefront of this movement Johnny Five is an open source JavaScript Arduino programming framework for robotics This book brings together fifteen innovative programmers each creating a unique Johnny Five robot step by step and offering tips and tricks along the way Experience with JavaScript is a prerequisite *BeagleBone By Example* Jayakarthygeyan Prabakar,2016-08-31 Learn how to build physical computing systems using BeagleBone Black and Python About This Book Get to grips with the fundamentals of BeagleBone Leverage Python scripts to program BeagleBone for your requirements Build four exciting projects from home automation to a tele controlled robot Who This Book Is For This book is intended for hobbyists and consumers who wish to create impressive

projects using BeagleBone You must be familiar with Python programming What You Will Learn Program on BeagleBone Black using Python Interface sensors and actuators to BeagleBone Black Build your own real time physical computing systems Connect physical computing systems to cloud servers Build your own home automation and home security system Build your own tele controlled robot with real time video streaming In Detail BeagleBone is a low cost community supported development platform to develop a variety of electronic projects This book will introduce you to BeagleBone and get you building fun cool and innovative projects with it Start with the specifications of BeagleBone Black and its operating systems then get to grips with the GPIOs available in BeagleBone Black Work through four types of exciting projects building real time physical computing systems home automation image processing for a security system and building your own tele controlled robot and learn the fundamentals of a variety of projects in a single book By the end of this book you will be able to write code for BeagleBone in order to operate hardware and impart decision making capabilities with the help of efficient coding in Python Style and approach This book is a step by step guide that will walk you through the fundamentals of building different projects using BeagleBone Black

*Bad to the Bone* Steven F. Barrett, Jason Kridner, 2013 This comprehensive book provides detailed materials for both novice and experienced programmers using all BeagleBone variants which host a powerful 32 bit super scalar TI Sitara ARM Cortex A8 processor Authored by Steven F Barrett and Jason Kridner a seasoned ECE educator along with the founder of Beagleboard.org respectively the work may be used in a wide variety of projects from science fair projects to university courses and senior design projects to first prototypes of very complex systems Beginners may access the power of the Bone through the user friendly Bonescript examples Seasoned users may take full advantage of the Bone's power using the underlying Linux based operating system a host of feature extension boards Capes and a wide variety of Linux community open source libraries The book contains background theory on system operation coupled with many well documented illustrative examples Examples for novice users are centered on motivational fun robot projects while advanced projects follow the theme of assistive technology and image processing applications Key Features Provides detailed examples for all BeagleBone variants including the newest next generation BeagleBone Black BeagleBone is a low cost open hardware expandable computer first introduced in november 2011 by beagleboard BeagleBone variants including the original BeagleBone and the new beaglebone black hosts a powerful 32 bit super scalar arM Cortex A8 processor BeagleBone is small enough to fit in a small mint tin box Bone may be used in a wide variety of projects from middle school science fair projects to university courses and senior design projects to first prototypes of very complex systems Novice users may access the power of the bone through the user friendly bonescript environment Seasoned users may take full advantage of the Bone's power using the underlying Linux based operating system A host of feature extension boards Capes and a wide variety of Linux community open source libraries are available The book provides an introduction to this powerful computer and has been designed for a wide variety of users The book contains background

theory on system operation coupled with many well documented illustrative examples Examples for novice users are centered on motivational fun robot projects Advanced projects follow the theme of assistive technology and image processing applications     **Robot projects** Richard Pawson,1985

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