



Community Experience Distilled

Mastering BeagleBone Robotics

Master the power of the BeagleBone Black to maximize your robot-building skills and create awesome projects

Richard Grimmett

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Mastering BeagleBone Robotics Richard Grimmert,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 Grimmert,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 BeagleBone Robotic Projects Richard Grimmert,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 **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: Creative Projects for Hobbyists Charles Hamilton, Rodolfo Giometti, Richard Grimmer, 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 *Programming the BeagleBone* Yogesh Chavan, 2016-01-28

Master BeagleBone programming by doing simple electronics and Internet of Things projects About This Book Quickly develop electronics projects that interact with Internet applications using JavaScript and Python Learn about electronics components such as sensors and motors and how to communicate with them by writing programs A step by step guide to explore the exciting world of BeagleBone from connecting BeagleBone to doing electronics projects and creating IoT applications Who This Book Is For If you want to learn programming on embedded systems with BeagleBone by doing simple electronics projects this book is for you This book is also helpful to BeagleBone owners who want to quickly implement small scale home automation solutions It is assumed that you have familiarity with C and Python programming Some familiarity with electronics is helpful but not essential What You Will Learn Connect your BeagleBone to a computer in different ways and get the Cloud9 IDE running to quick start programming on the BeagleBone Get to know about BeagleBone extension pins such as GPIO and how to connect various electronics components with BeagleBone Read and write to various electronics components such as LED Push button sensors and motors Grasp in depth theory on Analog PWM and BUS programming and the electronics components used in programs Handle data to and from various BUS supporting modules such as UART I2C and SPI using the Adafruit BBIO Python library Write real life IoT applications in JavaScript and Python such as shooting an e mail on overheat and controlling a servo motor remotely Make use of online free cloud services to store and analyze sensor data collected on the BeagleBone Discover what else can be done using the BeagleBone Get to grips with embedded system BUS communication In Detail The whole world is moving from desktop computers to smartphones and embedded systems We are moving towards utilizing Internet of Things IoT An exponential rise in the demand for embedded systems and programming in the last few years is driving programmers to use embedded development boards such as Beaglebone BeagleBone is an ultra small cost effective computer that comes with a powerful hardware It runs a full fledged Debian Linux OS and provides numerous electronics solutions BeagleBone is open source and comes with an Ethernet port which allows you to deploy IoT projects without any additions to the board It provides plenty of GPIO Analog pins and UART I2C SPI pins which makes it the right choice to perform electronics projects This gives you all the benefits of Linux kernel such as multitasking multiusers and extensive device driver support This allows you to do programming in many languages including high level languages such as JavaScript and Python This book aims to exploit the hardware and software capabilities of BeagleBone to create real life electronics and IoT applications quickly It is divided into two parts The first part covers JavaScript programs The second part provides electronics projects and IoT applications in Python First you will learn to use BeagleBone as tool to write useful applications on embedded systems Starting with the basics needed to set up BeagleBone and the Cloud9 IDE this book covers interfacing with various electronics components via simple programs The electronics theory related to these components is then explained in depth before you use them in a program Finally the book helps you

create some real life IoT applications Style and approach An easy to follow guide full of real world electronics programs and quick troubleshooting tips using BeagleBone All the required electronics concepts are explained in detail before using them in a program and all programs are explained in depth Most of the theory is covered in the first part while the second part gives you some quick programs *BeagleBone Home Automation Blueprints* Rodolfo Giometti,2016-02-03 Automate and control your home using the power of the BeagleBone Black with practical home automation projects About This Book Build set up and develop your circuits via step by step tutorial of practical examples from initial board setup to device driver management Get access to several kinds of computer peripherals to monitor and control your domestic environment using this guide This book is spread across 10 chapters all focused on one practical home automation project Who This Book Is For This book is for developers who know how to use BeagleBone and are just above the beginner level If you want to learn to use embedded machine learning capabilities you should have some experience of creating simple home automation projects What You Will Learn Build a CO and other gas sensor with a buzzer LED alarm to signal high concentrations Log environment data and plot it in a fancy manner 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 Use APIs to get access to a Google Docs account or a WhatsApp Facebook account to manage a home automation system Add custom device drivers to manage an LED with different blinking frequencies Discover how to work with electronic components to build small circuits Use an NFS temperature sensor relays and other peripherals to monitor and control your surroundings In Detail BeagleBone is a microboard PC that runs Linux It can connect to the Internet and can run OSes such as Android and Ubuntu BeagleBone is used for a variety of different purposes and projects from simple projects such as building a thermostat to more advanced ones such as home security systems Packed with real world examples this book will provide you with examples of how to connect several sensors and an actuator to the BeagleBone Black You ll learn how to give access to them in order to realize simple to complex monitoring and controlling systems that will help you take control of the house You will also find software examples of implementing web interfaces using the classical PHP HTML pair with JavaScript using complex APIs to interact with a Google Docs account WhatsApp or Facebook This guide is an invaluable tutorial if you are planning to use a BeagleBone Black in a home automation project Style and approach This step by step guide contains several home automation examples that can be used as base projects for tons of other home automation and control systems Through clear concise examples based on real life situations you will quickly get to grips with the core concepts needed to develop home automation applications with the BeagleBone Black using both the C language and high level scripting languages such as PHP Python and JavaScript Bad to the Bone Steven Barrett,Jason Kridner,2022-06-01 BeagleBone Black is a low cost open hardware computer uniquely suited to interact with sensors and actuators directly and over the Web Introduced in April 2013 by BeagleBoard.org a community of developers first established in early 2008 BeagleBone Black is used frequently to

build vision enabled robots home automation systems artistic lighting systems and countless other do it yourself and professional projects BeagleBone variants include the original BeagleBone and the newer BeagleBone Black both hosting a powerful 32 bit super scalar ARM Cortex A8 processor capable of running numerous mobile and desktop capable operating systems typically variants of Linux including Debian Android and Ubuntu Yet BeagleBone is small enough to fit in a small mint tin box The Bone may be used in a wide variety of projects from middle school science fair projects to senior design projects to first prototypes of very complex systems Novice users may access the power of the Bone through the user friendly BoneScript software experienced through a Web browser in most major operating systems including Microsoft Windows Apple Mac OS X or the Linux operating systems 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 This book provides an introduction to this powerful computer and has been designed for a wide variety of users including the first time novice through the seasoned embedded system design professional 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

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 Robotic Projects - Second Edition Richard Grimmett, 2017-06-13 Exciting new capabilities to enable even easier DIY robotics with BeagleBone Blue About 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

Mastering Beaglebone Robotics Grimmert Richard Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Mastering Beaglebone Robotics Grimmert Richard**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled 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's key themes, examine its writing style, and analyze its overall effect on readers.

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