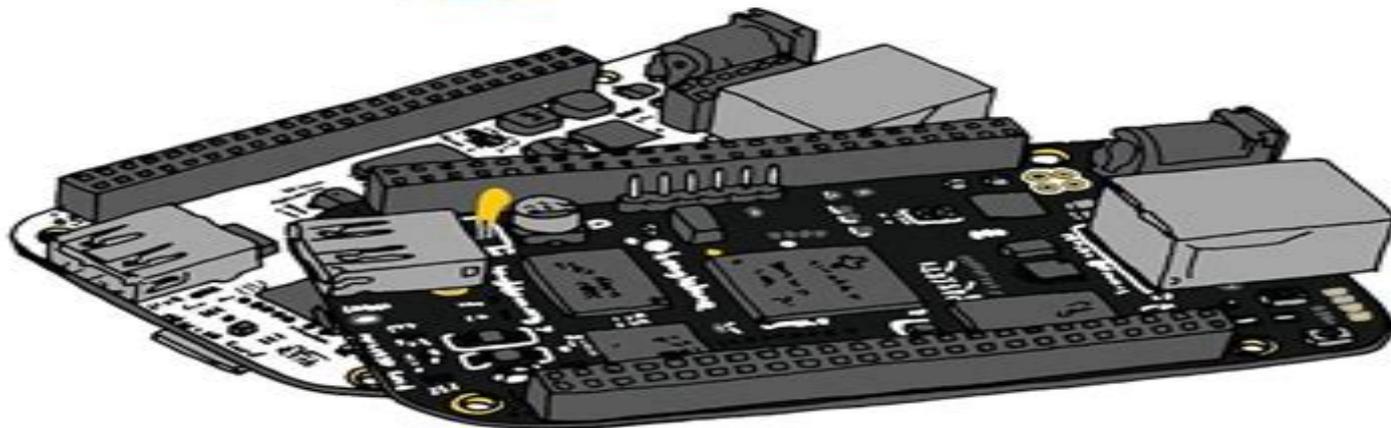


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# Getting Started with BeagleBone



Linux-Powered Electronic Projects  
With Python and JavaScript

**Matt Richardson**

Foreword by Jason Kridner

# Getting Started With Beaglebone Linux Powered Electronic Projects With Python And Javascript

**Charles Hamilton, Rodolfo  
Giometti, Richard Grimmett**



## **Getting Started With Beaglebone Linux Powered Electronic Projects With Python And Javascript:**

**Getting Started with BeagleBone** Matt Richardson,2013-10-04 Many people think of Linux as a computer operating system running on users desktops and powering servers But Linux can also be found inside many consumer electronics devices Whether they re the brains of a cell phone cable box or exercise bike embedded Linux systems blur the distinction between computer and device Many makers love microcontroller platforms such as Arduino but as the complexity increases in their projects they need more power for applications such as computer vision The BeagleBone is an embedded Linux board for makers It s got built in networking many inputs and outputs and a fast processor to handle demanding tasks This book introduces you to both the original BeagleBone and the new BeagleBone Black and gets you started with projects that take advantage of the board s processing power and its ability to interface with the outside world [Getting Started with BeagleBone](#) Matt Richardson (technicien), [Exploring BeagleBone](#) Derek Molloy,2014-12-05 In depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands on guide to bringing gadgets gizmos and robots to life using the popular BeagleBone embedded Linux platform Comprehensive content and deep detail provide more than just a BeagleBone instruction manual you ll also learn the underlying engineering techniques that will allow you to create your own projects The book begins with a foundational primer on essential skills and then gradually moves into communication control and advanced applications using C C allowing you to learn at your own pace In addition the book s companion website features instructional videos source code discussion forums and more to ensure that you have everything you need The BeagleBone s small size high performance low cost and extreme adaptability have made it a favorite development platform and the Linux software base allows for complex yet flexible functionality The BeagleBone has applications in smart buildings robot control environmental sensing to name a few and expansion boards and peripherals dramatically increase the possibilities Exploring BeagleBone provides a reader friendly guide to the device including a crash course in computer engineering While following step by step you can Get up to speed on embedded Linux electronics and programming Master interfacing electronic circuits buses and modules with practical examples Explore the Internet connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications including video and sound Explore the BeagleBone s Programmable Real Time Controllers Hands on learning helps ensure that your new skills stay with you allowing you to design with electronics modules or peripherals even beyond the BeagleBone Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone the practical handbook for the popular computing platform **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

**Getting Started with BeagleBone** Matt Richardson (Technologist), 2013 Many people think of Linux as a computer operating system running on users desktops and powering servers But Linux can also be found inside many consumer electronics devices Whether they re the brains of a cell phone cable box or exercise bike embedded Linux systems blur the distinction between computer and device Many makers love microcontroller platforms such as Arduino but as the complexity increases in their projects they need more power for applications such as computer vision The BeagleBone is an embedded Linux board for makers It s got built in networking many inputs and outputs and a fast processor to handle demanding tasks This book introduces you to both the original BeagleBone and the new BeagleBone Black and gets you started with projects that take advantage of the board s processing power and its ability to interface with the outside world

**BeagleBone For Dummies** Rui Santos, Luís Miguel Costa Perestrelo, 2015-02-23 The definitive easy to use guide to the popular BeagleBone board BeagleBone For Dummies is the definitive beginner s guide to using the popular BeagleBone board to learn electronics and programming Unlike other books that require previous knowledge of electronics Linux and Python this one assumes you know nothing at all and guides you step by step throughout the process of getting acquainted with your BeagleBone Original or BeagleBone Black You ll learn how to get set up use the software build the hardware and code your projects with plenty of examples to walk you through the process You ll move carefully through your first BeagleBone project then get ideas for branching out from there to create even better more advanced programs The BeagleBone is a tiny computer board about the size of a credit card that has all the capability of a desktop Its affordability and ease of use has made it popular among hobbyists hardware enthusiasts and programmers alike and it s time for you to join their ranks as you officially dive into the world of microcomputers This

book removes the guesswork from using the popular BeagleBone board and shows you how to get up and running in no time Download the operating system and connect your BeagleBone Learn to navigate the desktop environment Start programming with Python and Bonescript Build your first project and find plans for many more To learn BeagleBone you could spend hours on the Internet and still never find the information you need or you can get everything you need here This book appeals to all new and inexperienced hobbyists tinkerers electronics gurus hackers budding programmers engineers and hardware geeks who want to learn how to get the most out of their powerful BeagleBone

**Getting Started with BeagleBone** Matt Richardson,2013 Many people think of Linux as a computer operating system running on users desktops and powering servers But Linux can also be found inside many consumer electronics devices Whether they re the brains of a cell phone cable box or exercise bike embedded Linux systems blur the distinction between computer and device Many makers love microcontroller platforms such as Arduino but as the complexity increases in their projects they need more power for applications such as computer vision The BeagleBone is an embedded Linux board for makers It s got built in networking many inputs and outputs and a fast processor to handle demanding tasks This book introduces you to both the original BeagleBone and the BeagleBone Black and gets you started with projects that take advantage of the board s processing power and its ability to interface with the outside world

Programming the Beaglebone Yogesh Chavan,2016-01-29

**Programming the BeagleBone Black: Getting Started with JavaScript and BoneScript** Simon Monk,2014-05-06 Program your own BeagleBone Black projects Build creative BeagleBone Black devices no prior programming or electronics experience required In Programming the BeagleBone Black electronics guru Simon Monk explains essential application development methods through straightforward directions and cool downloadable examples Discover how to navigate the board write and debug code use expansion capes and control external hardware Easy to follow plans show you how to wire up and program a Web controlled roving robot and an e mail notifier that lights an incandescent lamp Set up the BeagleBone Black and explore its features Connect to your computer via USB or Ethernet Use the BeagleBone Black as a stand alone PC Write and execute BoneScript code Use JavaScript functions and timers Perform analog and digital I O Work with expansion capes and modules Design Web interfaces that control electronics Assemble and program a robot and an e mail notifier

BeagleBone Cookbook Mark A. Yoder,Jason Kridner,2015-04-03 BeagleBone is an inexpensive web server Linux desktop and electronics hub that includes all the tools you need to create your own projects whether it s robotics gaming drones or software defined radio If you re new to BeagleBone Black or want to explore more of its capabilities this cookbook provides scores of recipes for connecting and talking to the physical world with this credit card sized computer All you need is minimal familiarity with computer programming and electronics Each recipe includes clear and simple wiring diagrams and example code to get you started If you don t know what BeagleBone Black is you might decide to get one after scanning these recipes Learn how to use BeagleBone to interact with the physical world Connect force light and distance sensors Spin servo motors

stepper motors and DC motors Flash single LEDs strings of LEDs and matrices of LEDs Manage real time input output I O Work at the Linux I O level with shell commands Python and C Compile and install Linux kernels Work at a high level with JavaScript and the BoneScript library Expand BeagleBone s functionality by adding capes Explore the Internet of Things

The Hardware Startup Renee DiResta, Brady Forrest, Ryan Vinyard, 2015-05-20 Thanks to the decreasing cost of prototyping it s more feasible for professional makers and first time entrepreneurs to launch a hardware startup But exactly how do you go about it This book provides the roadmap and best practices you need for turning a product idea into a full fledged business Written by three experts from the field The Hardware Startup takes you from idea validation to launch complete with practical strategies for funding market research branding prototyping manufacturing and distribution Two dozen case studies of real world startups illustrate possible successes and failures at every stage of the process Validate your idea by learning the needs of potential users Develop branding marketing and sales strategies early on Form relationships with the right investment partners Prototype early and often to ensure you re on the right path Understand processes and pitfalls of manufacturing at scale Jumpstart your business with the help of an accelerator Learn strategies for pricing marketing and distribution Be aware of the legal issues your new company may face **BeagleBone Black Cookbook** Charles A. Hamilton, 2015-11-18 Over 60 recipes and solutions for inventors makers and budding engineers to create projects using the BeagleBone Black About This Book Learn how to develop applications with the BeagleBone Black and open source Linux software Sharpen your expertise in making sophisticated electronic devices Explore the BeagleBone Black with this easy to succeed recipe format Who This Book Is For If you are a hardware Linux and or microcomputing novice or someone who wants more power and possibilities with product prototypes electronic art projects or embedded computing experiments then this book is for you It is for Internet of Things enthusiasts who want to use more sophisticated hardware than the Raspberry Pi or the Arduino can provide Whether you are an engineering student a DIYer an inventor or a budding electronics enthusiast this book delivers accessible easy to succeed instructions for using an advanced microcomputing platform What You Will Learn Set up and run the BeagleBone Black for the first time Learn the basics of microcomputing and Linux using the command line and easy kernel mods Make introductory projects with Python JavaScript BoneScript and Node js Explore physical computing and simple circuits using buttons LEDs sensors and motors Discover the unique features of the BeagleBone Black and its real time computing functions Build intermediate level audio and video applications Assemble and add ingredients for creating Internet of Things prototypes In Detail There are many single board controllers and computers such as Arduino Udoo or Raspberry Pi which can be used to create electronic prototypes on circuit boards However when it comes to creating more advanced projects BeagleBone Black provides a sophisticated alternative Mastering the BeagleBone Black enables you to combine it with sensors and LEDs add buttons and marry it to a variety of add on boards You can transform this tiny device into the brain for an embedded application or an endless variety of electronic inventions and

prototypes With dozens of how tos this book kicks off with the basic steps for setting up and running the BeagleBone Black for the first time from connecting the necessary hardware and using the command line with Linux commands to installing new software and controlling your system remotely Following these recipes more advanced examples take you through scripting debugging and working with software source files eventually working with the Linux kernel Subsequently you will learn how to exploit the board s real time functions We will then discover exciting methods for using sound and video with the system before marching forward into an exploration of recipes for building Internet of Things projects Finally the book finishes with a dramatic arc upward into outer space when you explore ways to build projects for tracking and monitoring satellites Style and approach This comprehensive recipe book deconstructs a complex often confusing piece of technology and transforms it to become accessible and fun with snappy unintimidating prose and extensive easy to succeed instructions

**BeagleBone Black Programming by Example** Agus Kurniawan, BeagleBone Black is a low cost community supported development platform for developers and hobbyists This book helps you to get started with BeagleBone Black development using Python and Node js with Debian Linux platform Several demo samples are be provided to accelerate your learning The following is highlight topics in this book Preparing Development Environment Basic Configuration Serial Debugging BeagleBone Black Programming Language BeagleBone Black I O Programming GPIO Analog I O PWM UART SPI I2C TWI Arduino Development Working with XBee IEEE 802 15 4 OpenCV Development **BeagleBone Black Wireless Technical Workshop** Agus Kurniawan, This book explains how to get started with BeagleBone Black Wireless development using Python and Node js with step by step approach The following is a list of the topic Preparing Development Environment Basic Configuration Administering Linux on BeagleBone Black Wireless Serial Debugging BeagleBone Black Wireless Programming Language BeagleBone Black Wireless I O Programming using Python BeagleBone Black Wireless I O Programming using Node js Arduino Development Working with XBee 802 15 4 OpenCV Development *Learning Beaglebone Python Programming* Alexander Hiam,2015-07-14 If you have experience with the Python language and are interested in getting started with electronics then BeagleBone Black is the perfect platform for you and this book will provide you with the information you need **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

**Programming for Beginners** Matthew Python,2020-03-16 Is it a great idea to try to use JavaScript for computer programming Also would you like to control switch LED and so on by simply programming them with a single board even without changing the board itself when something goes wrong Arduino is a fascinating platform used to build electronic projects It is preferred by a lot of experts just starting out electronic projects The Arduino board is processed to use simple chips called Microcontrollers While JavaScript is among the widely computer programming languages in the world JavaScript is used by various software companies in the world so much that many computer operations will not work without it Both JavaScript and Arduino are pretty simple to use The most exciting feature of JavaScript is that it allows you to program using English based commands not numeric codes and that makes it a whole lot easier for humans to program This means programmers can read and easily understand the computer language Coding with an Arduino program can make it pretty easy to control your electronics because you don t have to change the whole board when something goes wrong each faulty microchip can be easily replaced However there are vital skills you need in order to navigate JavaScript and Arduino as an expert If you are a beginner who hasn t even run the JavaScript or Arduino application by accident or you have some raw idea the book attached below can help you explore easily Programming For Beginners Volume 1 2 Books in 1 Arduino Programming for Beginners and Javascript for Beginners by Matthew Python Here s what you ll learn What is Arduino What is JavaScript JavaScript in XHTML documents in browsers etc Why JavaScript Types of JavaScript execution how to create one Python Vs Java and so on Explanation of Arduino

Components Getting started with Arduino Basic and advanced Programming Structure for JavaScript Basic digital Arduino programs Basic analog Arduino programs Inputs outputs and sensor Data Structures Objects and Arrays Higher Order Functions Arduino function libraries Computer interfacing with an Arduino Troubleshooting What is JavaScript Cookies and much more Scroll up and add to cart Programming For Beginners Volume 1 by Matthew Python **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 **Getting Started with Adafruit Circuit Playground Express** Anne Barela,2018 From Adafruit Industries a leader in products to Makers designers students young and old comes the Circuit Playground Express Connect it to your PC Mac or Linux computer and you can be

programming interactive projects in minutes You have a choice of programming environments to choose from Python the Microsoft MakeCode graphical building block environment C C via the Arduino development environment and JavaScript Whether you are learning interactive programming have an Internet of Things project in mind or are looking to design on the go wearable electronics the versatile Circuit Playground Express is the device to start with In Getting Started with the Adafruit Circuit Playground Express you ll learn how to Get up and running quickly with programmable boards Understand the basics of coding in multiple programming languages Use the built in sensors for a variety of projects Make colorful interactive displays Design programs for the Internet of Things IoT *Raspberry Pi Electronics Projects for the Evil Genius* Donald Norris,2016-05-30 Program your own MicroPython projects with ease no prior programming experience necessary This DIY guide provides a practical introduction to microcontroller programming with MicroPython Written by an experienced electronics hobbyist Python for Microcontrollers Getting Started with MicroPython features eight start to finish projects with clear easy to follow instructions for each You will learn how to use sensors store data control motors and other devices and work with expansion boards From there you ll discover how to design build and program all kinds of entertaining and practical projects of your own Learn MicroPython and object oriented programming basics Interface with a PC and load files programs and modules Work with the LEDs timers and converters Control external devices using serial interfaces and PWM Build and program a let ball detector using the three axis accelerometer Install and program LCD and touch sensor expansion boards Record and play sounds using the AMP audio board

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## Getting Started With Beaglebone Linux Powered Electronic Projects With Python And Javascript :

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