

Programming The Beaglebone Black Getting Started With Javascript And Bonescript

Android for the BeagleBone BlackBeaglebone Black CookbookThe BeagleBone Black Primer30 BeagleBone Black Projects for the Evil GeniusBeagleBone EssentialsProgramming the BeagleBone Black: Getting Started with JavaScript and BoneScriptThe BeagleBone Black PrimerBad to the BoneBeagleBone Black Programming using MatlabBeagleBone: Creative Projects for HobbyistsBad to the BoneBeagleBone Black Wireless Technical WorkshopBeaglebone BlackEmbedded Linux Systems with the Yocto ProjectBeagleBone For DummiesExploring BeagleBoneBuilding a BeagleBone Black Super ClusterDesigning Circuit Boards with EAGLETaking the BeagleBone Cookbook Recipes Beyond BeagleBone BlackThe Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black Andrew Henderson Charles Hamilton Brian McLaughlin Christopher Rush Rodolfo Giometti Simon Monk Brian McLaughlin Steven Barrett Agus Kurniawan Charles Hamilton Steven Frank Barrett Agus Kurniawan UpSkill Learning Rudolf J. Streif Rui Santos Derek Molloy Andreas Josef Reichel Matthew Scarpino Jason Kridner Donald Norris

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Scarpino Jason Kridner Donald Norris*

if you are an android app developer who wants to experiment with the hardware capabilities of the beaglebone black platform then this book is ideal for you you are expected to have basic knowledge of developing android apps but no prior hardware experience is required

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

the beaglebone black primer master beaglebone black today s most powerful low cost embedded development platform you can do amazing things with beaglebone black get started in just five minutes all you need is a usb cable and this easy hands on primer brian mclaughlin teaches you enough to be seriously dangerous start with the simplest embedded programming concepts explore beaglebone black s capabilities and learn all the essentials from controlling i o to establishing network connections then step by step master increasingly advanced techniques with the cloud9 ide and bonescript integrate external hardware install linux or android use cape expansion boards to do even more don t just learn it do it this guide is packed with projects from weather stations to car computers to a capstone project using software defined radio to capture signals from local airspace and orbiting satellites you won t just put beaglebone black to work you ll start imagining great projects of your own and then you ll build them discover how beaglebone black works and what it can do get your beaglebone black and get it working fast link your beaglebone black to the world and link yourself to the global beaglebone community learn to read schematics and use them to connect hardware prototype your projects with breadboards extend beaglebone black with capes add sensors to capture and use data from the environment use actuators to make things happen in the real world make your beaglebone black recognize your face learn from mistakes and go beyond what you ve

already learned brian mclaughlin is an engineer by profession and by hobby building on a solid foundation in software he was first exposed to advanced hardware topics while working on the hubble space telescope after working for lockheed martin he joined nasa where he s supported many of nasa s most exciting missions he holds a b s in computer science north carolina state university and an m s in systems engineering university of maryland he s also written for geekdad and is a member of the growing maker community

fiendishly fun ways to use the beaglebone black this wickedly inventive guide shows you how to program and build fun and fascinating projects with the beaglebone black you ll learn how to connect the beaglebone black to your computer and program it quickly mastering bonescript and other programming tools so you can get started right away 30 beaglebone black projects for the evil genius is filled with a wide variety of do it yourself led sensor robotics display audio and spy gadgets you ll also get tips and techniques that will help you design your own ingenious devices features step by step instructions and helpful illustrations provides full schematic and breadboard layout diagrams for the projects includes detailed programming code removes the frustration factor all required parts are listed along with sources build these and other clever creations high powered led morse code sender rgb led fader gps tracker temperature sensor light level indicator controlled rover plant hydration system sentinel turret 7 segment clock display for sensor information internet radio imperial march indicator intruder alert using twitter api lie detector auto dog barker

if you are a developer with some hardware or electrical engineering experience who wants to learn how to use embedded machine learning capabilities and get access to a gnu linux device driver to collect data from a peripheral or to control a device this is the book for you

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 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 interfaces that control electronics assemble and program a robot and an e mail notifier

beaglebone black is a low cost open hardware computer uniquely suited to interact with sensors and actuators directly and over the 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 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

matlab provides apis to access beaglebone black board this book helps you to get started with beaglebone black programming using matlab the following the highlight preparing development environment setting up beaglebone black development for matlab working with gpio working with pwm and adc working with i2c working with spi working with serial

port working with camera working with beaglebone black linux command measuring and plotting sensor data in real time

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

beaglebone black is a low cost open hardware computer uniquely suited to interact with sensors and actuators directly and over the 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 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

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

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build complete embedded linux systems quickly and reliably developers are increasingly integrating linux into their embedded systems it supports virtually all hardware architectures and many peripherals scales well offers full source code and requires no royalties the yocto project makes it much easier to customize linux for embedded systems if you re a developer with working knowledge of linux embedded linux systems with the yocto projecttm will help you make the most of it an indispensable companion to the official documentation this guide starts by offering a solid grounding in the embedded linux landscape and the challenges of creating custom distributions for embedded systems you ll master the yocto project s toolbox hands on by working through the entire development lifecycle with a variety of real life examples that you can incorporate into your own projects author rudolf streif offers deep insight into yocto project s build system and engine and addresses advanced topics ranging from board support to compliance management you ll learn how to overcome key challenges of creating custom embedded distributions jumpstart and iterate os stack builds with the openembedded build system master build workflow architecture and the bitbake build engine quickly troubleshoot build problems customize new distros with built in blueprints or from scratch use bitbake recipes to create new software packages build kernels set configurations and apply patches support diverse cpu architectures and systems create board support packages bsp for hardware specific adaptations provide application development toolkits adt for round trip development remotely run and debug applications on actual hardware targets ensure open source license compliance scale team based projects with toaster build history source mirrors and autobuilder

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

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

if you are a programmer scientist or someone interested in modern computer technology that goes beyond the typical pc then this book will show you the outstanding possibilities of cluster computing with modern embedded systems based on arm architecture whether you need a high speed or low cost scalable cluster for simulations or want to try something new this book is the right guide for you

matt scarpino has provided a great tool for the hobbyist starting out in the circuit board design world demonstrating all the features you ll need to create your own circuit board projects however the experienced engineer will also benefit from the book as it serves as a complete reference guide to all eagle software configuration settings and features his insightful guidance helps simplify difficult tasks and his handy tips will help save you hours of trial and error experimentation rich blum author sams teach yourself arduino programming in 24 hours and sams teach yourself python programming for raspberry pi in 24 hours powerful flexible and inexpensive eagle is the ideal pcb design solution for every maker diyer startup hobbyist or student today all open source arduino designs are released in eagle format if you want to design cost effective new pcbs this is the tool to learn matthew scarpino helps you take full advantage of eagle s remarkable capabilities

you won't find any differential equations here only basic circuit theory and hands on techniques for designing effective pcbs and getting innovative new gadgets to market scarpino starts with an accessible introduction to the fundamentals of pcb design next he walks through the design of basic intermediate and complex circuit boards starting with a simple inverting amplifier and culminating in a six layer single board computer with hundreds of components and thousands of routed connections as the circuits grow more complex you'll master advanced eagle features and discover how to automate crucial design related tasks whatever your previous experience scarpino's start to finish examples and practical insight can help you create designs of stunning power and efficiency understand single sided double sided and multilayer boards design practical circuits with the schematic editor transform schematics into physical board designs convert board designs into gerber output files for fabrication expand eagle's capabilities with new libraries and components exchange designs with ltspice and simulate their responses to input automate simple repetitive operations with editor commands streamline circuit design and library generation with user language programs ulps design for the advanced beaglebone black with high speed bga devices and a 32 bit system on a chip soc use buses to draw complex connections between components configure stackups create route bga components and route high speed signals eagle book.com provides an archive containing the design files for the book's circuits it also includes eagle libraries scripts and user language programs ulps

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 this webcast will go over some of the recipes in the beaglebone cookbook that go beyond beaglebone black for connecting and talking to the physical world with this credit card sized computer resource description page

build and program projects that tap into the internet of things iot using arduino raspberry pi and beaglebone black this innovative guide gets you started right away working with the most popular processing platforms wireless communication technologies the cloud and a variety of sensors you'll learn how to take advantage of the utility and versatility of the iot and connect devices and systems to the internet using sensors each project features a list

of the tools and components how to explanations with photos and illustrations and complete programming code all projects can be modified and expanded so you can build on your skills the internet of things diy projects with arduino raspberry pi and beaglebone black covers the basics of java c python javascript and other programming languages used in the projects shows you how to use ibm s net beans ide and the eclipse ide explains how to set up small scale networks to connect the projects to the internet includes essential tips for setting up and using a mysql database the fun diy projects in the book include raspberry pi home temperature measurements raspberry pi surveillance webcams raspberry pi home weather station arduino garage door controller arduino irrigation controller arduino outdoor lighting controller beaglebone message panel beaglebone remote control sdr machine to machine demonstration project

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