



Beaglebone By Example Kobo

Roman Wölfel



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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

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

BeagleBone: Creative Projects for Hobbyists Charles Hamilton,2017 *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

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

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

30 BeagleBone Black Projects for the Evil Genius Christopher Rush, 2014-09-26 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 Web 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

BeagleBone Robotic Projects Richard Grimmett, 2017-06-13 Exciting new capabilities to enable even easier DIY robotics with BeagleBone Blue Key Features Build powerful robots with the all new BeagleBone Blue Communicate with your robot and teach it to detect and respond to its environment Control walking rolling swimming and flying robots with your iOS and Android mobile devices Book Description BeagleBone Blue is effectively a small light cheap computer in a similar vein to Raspberry Pi and Arduino It has all of the extensibility of today's desktop machines but without the bulk expense or noise This project guide provides step by step instructions that enable anyone to use this new low cost platform in some fascinating robotics projects By the time you are finished your projects will be able to see speak listen detect their surroundings and move in a variety of amazing ways The book begins with unpacking and powering up the components This includes guidance on what to purchase and how to connect it all successfully and a primer on programming the BeagleBone Blue You will add additional software functionality available from the open source community including making the system see using a webcam hear using a microphone and speak using a speaker You will then learn to use the new hardware capability of the BeagleBone Blue to make your robots move as well as discover how to add sonar sensors to avoid or find objects Later you will learn to remotely control your robot through iOS and Android devices At the end of this book you will see how to integrate all of these functionalities to work together before developing the most impressive robotics projects Drone and Submarine What you will learn Power on and configure the BeagleBone Blue Get to know Simple programming techniques to enable the unique hardware capabilities of the BeagleBone Blue Connect standard hardware to enable your projects to see speak hear and move Build advanced capabilities into your projects such as GPS and sonar sensors Build complex projects that can fly or go under or on the water

Who this book is for This book is for anyone who is curious about using new low cost hardware to create robotic projects and have previously been the domain of research labs major universities or defence departments Some programming experience would be useful but if you know how to use a personal computer you can use this book to construct far more complex systems than you would have thought possible

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