Exploring Beaglebone Techniques Building Embedded

Exploring Raspberry PiExploring BeagleBoneGetting Started with Electronic ProjectsBuilding a Home Security System with BeagleBoneInternet of ThingsExploring BeagleBone, 2nd EditionThe BeagleBone Black Primer Derek Molloy Derek Molloy Bill Pretty Bill Pretty Qusay F. Hassan Derek Molloy Brian McLaughlin

Exploring Raspberry Pi Exploring BeagleBone Getting Started with Electronic Projects Building a Home Security System with BeagleBone Internet of Things Exploring BeagleBone, 2nd Edition The BeagleBone Black Primer *Derek Molloy Derek Molloy Bill Pretty Bill Pretty Qusay F. Hassan Derek Molloy Brian McLaughlin*

expand raspberry pi capabilities with fundamental engineering principles exploring raspberry pi is the innovators guide to bringing raspberry pi to life this book favors engineering principles over a recipe approach to give you the skills you need to design and build your own projects you ll understand the fundamental principles in a way that transfers to any type of electronics electronic modules or external peripherals using a learning by doing approach that caters to both beginners and experts the book begins with basic linux and programming skills and helps you stock your inventory with common parts and supplies next you ll learn how to make parts work together to achieve the goals of your project no matter what type of components you use the companion website provides a full repository that structures all of the code and scripts along with links to video tutorials and supplementary content that takes you deeper into your project the raspberry pi s most famous feature is its adaptability it can be used for thousands of electronic applications and using the linux os expands the functionality even more this book helps you get the most from your raspberry pi but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project develop the linux and programming skills you need to build basic applications build your inventory of parts so you can always make it work understand interfacing controlling and communicating with almost any component explore advanced applications with video audio real world interactions and more be free to adapt and create with exploring raspberry pi

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 updated to cover the latest beagle boards linux kernel versions and linux software releases includes new content on linux kernel development the linux remote processor framework can bus iot frameworks and much more 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

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

building a home security system with beaglebone is a practical hands on guide for practical hands on people the book includes step by step instructions for assembling your own hardware on professionally manufactured pcb s and setting up the software on your system this book is for anyone who is interested in alarm systems and how they work for hobbyists and basement tinkerers who love to build things if you want to build the hardware described in this book you will need some basic soldering skills but all the parts are of the thru hole variety and are very easy to put together when it comes to software you can just run it as is but if you want to modify the code you will need knowledge of java and ides

internet of things challenges advances and applications provides a comprehensive introduction to iot related technologies and common issues in the adoption of iot on a large scale it surveys recent technological advances and novel solutions for challenges in the iot environment moreover it provides detailed discussion of the utilization of iot and its underlying technologies in critical application areas such as smart grids healthcare insurance and the automotive industry the chapters of this book are authored by several international researchers and industry experts this book is composed of 18 self contained chapters that can be read based on interest features introduces iot including its history common definitions underlying technologies and challenges discusses

technological advances in iot and implementation considerations proposes novel solutions for common implementation issues explores critical application domains including large scale electric power distribution networks smart water and gas grids healthcare and e health applications and the insurance and automotive industries the book is an excellent reference for researchers and post graduate students working in the area of iot or related areas it also targets it professionals interested in gaining deeper knowledge of iot its challenges and application areas

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 updated to cover the latest beagle boards linux kernel versions and linux software releases includes new content on linux kernel development the linux remote processor framework can bus iot frameworks and much more 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

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