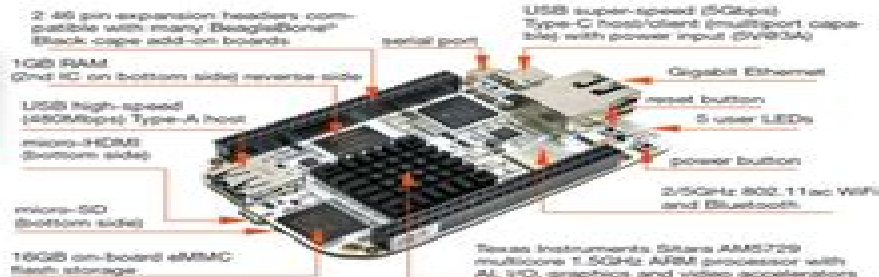


# BeagleBone® AI

## Quick start guide

- Latest instructions: [beagleboard.org/getting-started](http://beagleboard.org/getting-started)
- Latest software: [beagleboard.org/latest-images](http://beagleboard.org/latest-images)
- Latest product information: [beagleboard.org/ai](http://beagleboard.org/ai)
- Support: [beagleboard.org/support](http://beagleboard.org/support)
- Repair issues: [beagleboard.org/rma](http://beagleboard.org/rma)
- Newsletter: [beagleboard.org/newsletter](http://beagleboard.org/newsletter)

## BeagleBone® AI



EN

### Followed to a PC

1. Connect an USB Type-C cable to BeagleBone® AI USB Type-C port.
2. Connect the other end of the USB cable to the PC USB 3.0 port.
3. BeagleBone® AI will boot.
4. Look for a new mass storage drive to appear on the PC.
5. Open the drive and open a file manager with your web browser.

**Note:** For the latest online instructions, troubleshooting tips and support go to: [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (Images of Contents of Profile web browser) or [beagleboard.org](http://beagleboard.org)

### Follow to a PC

1. Branchez un câble USB Type-C au port USB Type-C du BeagleBone® AI.
2. Branchez l'autre extrémité du câble USB au port USB 3.0 de votre PC.
3. BeagleBone® AI démarre.
4. Attendez que le PC indique la nouvelle disposition de stockage de masse.
5. Cliquez sur l'icône et ouvrez le dossier dans votre navigateur web.

**Remarque :** Pour les dernières instructions, conseils de dépannage et le support, allez sur [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (L'exploration des images de contenu de votre navigateur web) ou [beagleboard.org](http://beagleboard.org)

DE

### Anbindung an einen PC

1. Schließen Sie ein USB-C-Kabel an den USB-Anschluss (Typ C) von BeagleBone® AI an.
2. Schließen Sie das andere Ende des USB-Kabels an den USB 3.0-Anschluss des PCs an.
3. BeagleBone® AI wird gestartet.
4. Warten Sie, bis die neue Massenspeichergeräts auf dem PC angezeigt wird.
5. Öffnen Sie das Laufwerk und öffnen Sie einen Webbrowser mit Ihrem BeagleBone® AI.

**Hinweis:** Für aktuelle Online-Anweisungen, Tipps zur Fehlerbehebung und Support gehen Sie zu [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (Der Verwendung von Bildern - oder Suchen Sie nach) oder [beagleboard.org](http://beagleboard.org)

ES

### Conectado a un ordenador

1. Conecte un cable USB Type-C al puerto USB Type-C de BeagleBone® AI.
2. Conecte el otro extremo del cable USB al puerto USB 3.0 del ordenador.
3. La BeagleBone® AI se enciende.
4. Espere a que aparezca la nueva disposición de almacenamiento de masa en el ordenador.
5. Haga clic en la icona y abra el directorio en su navegador web.

**Nota:** Si necesita ayuda o si quiere las instrucciones online y consejos para solucionar problemas, vaya a [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (Imágenes de contenido de Perfil web navegador) o [beagleboard.org](http://beagleboard.org)

IT

### Collegamento a un PC

1. Collegare un cavo USB Type-C al porto USB Type-C di BeagleBone® AI.
2. Collegare l'altro estremo del cavo USB al porto USB 3.0 del PC.
3. BeagleBone® AI si avvia.
4. Attendere che sulla scrivania del computer appaia la nuova unità di massa del PC.
5. Cliccare sull'icona e aprire il file manager con il proprio browser web.
6. Seguire le istruzioni sul PC.

**Nota:** Per le istruzioni online, consigli di assistenza, consigli per la risoluzione dei problemi e l'assistenza tecnica, andare su [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (L'immagine di contenuto di profilo del browser web) o [beagleboard.org](http://beagleboard.org)

PT

### Dependência de um PC

1. Ligue um cabo USB Type-C à porta USB Type-C do BeagleBone® AI.
2. Ligue o outro extremo do cabo USB à porta USB 3.0 do PC.
3. O BeagleBone® AI é ligado.
4. Aguarde que uma unidade de armazenamento de massa apareça no computador.
5. Clique no ícone e abra o gestor de ficheiros no seu navegador web.
6. Siga as instruções no PC.

**Nota:** Para as mais recentes instruções online, dicas de resolução de problemas e apoio técnico vá a [beagleboard.org/getting-started](http://beagleboard.org/getting-started) (Imagem de conteúdo de perfil do navegador web) ou [beagleboard.org](http://beagleboard.org)

### Standalone with Keyboard and Mouse

1. Connect a cable keyboard and mouse to BeagleBone® AI's USB host port.
2. Connect an micro-HDMI cable to the board.
3. Connect the micro-HDMI to HDMI cable to an HDMI monitor.
4. Plug a USB Type-C power supply into BeagleBone® AI's USB Type-C port.
5. BeagleBone® AI will boot. No need to enter any password.
6. Desktop will appear on the monitor. Click the "Getting Started" icon.

### Autonomous, even without all inputs

1. Branchez un câble clavier et une souris au port USB Type-C de BeagleBone® AI.
2. Branchez un câble micro-HDMI sur la carte.
3. Branchez un câble micro-HDMI vers HDMI à un écran HDMI.
4. Branchez une alimentation USB Type-C sur le port USB Type-C de BeagleBone® AI.
5. BeagleBone® AI démarre. Il n'est pas nécessaire de saisir un mot de passe.
6. Le bureau apparaît à l'écran. Cliquez sur l'icône "Getting Started".

### Betrieb nur mit Tastatur und Maus

1. Schließen Sie eine Tastatur und eine Maus an den USB-Anschluss von BeagleBone® AI an.
2. Schließen Sie ein Micro-HDMI-Kabel an die Board an.
3. Schließen Sie das Micro-HDMI-Kabel an einen HDMI-Monitor an.
4. Verbinden Sie eine USB-Energiequelle (Typ C) mit dem USB-Anschluss (Typ C) der BeagleBone® AI.
5. BeagleBone® AI wird gestartet. Es müssen keine Passwörter eingegeben.
6. Der Desktop erscheint auf dem Bildschirm. Klicken Sie auf das Symbol "Erste Schritte".

### De forma independiente con teclado y ratón

1. Conecte un conjunto de teclado y ratón al puerto USB de la BeagleBone® AI.
2. Conecte un cable micro-HDMI a la placa.
3. Conecte el cable micro-HDMI al HDMI de un monitor HDMI.
4. Conecte una fuente de alimentación USB Type-C al puerto USB Type-C de la BeagleBone® AI.
5. La BeagleBone® AI se enciende. No es necesario introducir ninguna contraseña.
6. El escritorio aparecerá en el monitor. Haga clic en el icono "Getting Started".

### Standalone con teclado e mouse

1. Collegare un mouse e tastiera al porto USB Type-C di BeagleBone® AI.
2. Collegare un cavo micro-HDMI alla scheda.
3. Collegare il cavo micro-HDMI verso HDMI a un monitor HDMI.
4. Collegare un'alimentazione USB Type-C alla porta USB Type-C di BeagleBone® AI.
5. BeagleBone® AI si avvia. Non è necessario introdurre alcuna password.
6. Il desktop verrà visualizzato sul monitor. Fare clic sull'icona "Primi passi".

### Autônomo com teclado e rato

1. Ligue um conjunto de teclado e rato à porta de entrada USB do BeagleBone® AI.
2. Ligue um cabo micro-HDMI à placa.
3. Ligue um cabo micro-HDMI para HDMI a um monitor com entrada HDMI.
4. Ligue uma fonte de energia USB Type-C à porta USB Type-C do BeagleBone® AI.
5. A BeagleBone® AI vai iniciar. Não é necessário introduzir qualquer palavra.
6. O ambiente de trabalho será apresentado no monitor. Clique no ícone "Começar agora".

### Wireless Connection

1. Plug a USB Type-C power supply into BeagleBone® AI's USB Type-C port.
2. BeagleBone® AI will boot.
3. Connect your PC's WiFi to 802.11ac "BeagleBone-XXXX" using XXXX values for your BeagleBone® AI.
4. Use password "BeagleBone" to complete the WiFi connection.
5. Open <http://192.168.2.1> in your web browser.
6. Follow the instructions in the browser window.

### Connection using Wi

1. Branchez une alimentation USB Type-C au port USB Type-C de BeagleBone® AI.
2. BeagleBone® AI démarre.
3. Connectez le Wi-Fi de votre PC au 802.11ac "BeagleBone-XXXX" avec XXXX valeurs correspondant à votre BeagleBone® AI.
4. Utilisez le mot de passe "BeagleBone" pour compléter la connexion Wi-Fi.
5. Ouvrez <http://192.168.2.1> dans votre navigateur web.
6. Suivez les instructions indiquées dans la fenêtre du navigateur.

### Drådløs forbindelse

1. Forbind til en USB-Energikilde (Typ C) til den USB-Anslutning (Typ C) af BeagleBone® AI.
2. BeagleBone® AI vil være startet.
3. Forbind den Wi-Fi til din PC til 802.11ac "BeagleBone-XXXX", hvor XXXX er de værdier, der svarer til din BeagleBone® AI.
4. Indtast den Wi-Fi Password "BeagleBone", når du får Wi-Fi forbindelse.
5. Åbn <http://192.168.2.1> i din Webbrowser.
6. Følg den Anvisninger i din Browser-finde.

### Conexión inalámbrica

1. Conecte una fuente de alimentación USB Type-C al puerto USB Type-C de la BeagleBone® AI.
2. La BeagleBone® AI se enciende.
3. Conecte el Wi-Fi de su ordenador al 802.11ac "BeagleBone-XXXX", donde XXXX indica los valores de su BeagleBone® AI.
4. Use la contraseña "BeagleBone" para completar la conexión Wi-Fi.
5. Abra <http://192.168.2.1> en su navegador web.
6. Siga las instrucciones en la ventana del navegador.

### Comunicação wireless

1. Ligue uma alimentação USB Type-C à porta USB Type-C de BeagleBone® AI.
2. BeagleBone® AI se inicia.
3. Ligue o Wi-Fi do seu PC ao 802.11ac "BeagleBone-XXXX", onde XXXX indica o próprio BeagleBone® AI.
4. Utilize o sistema de senha "BeagleBone" para completar a conexão Wi-Fi.
5. Abra <http://192.168.2.1> no seu navegador web.
6. Siga as instruções na janela do navegador.

### NOTA

1. Ligue uma unidade de energia USB Type-C à porta USB Type-C do BeagleBone® AI.
2. A BeagleBone® AI vai iniciar.
3. Ligue o Wi-Fi do seu PC ao 802.11ac "BeagleBone-XXXX", onde XXXX indica os valores de sua BeagleBone® AI.
4. Use o sistema de senha "BeagleBone" para completar a conexão Wi-Fi.
5. Abra <http://192.168.2.1> no seu navegador web.
6. Siga as instruções na janela do navegador.

# Beagleboard Bone Manuals

**Lee Zhi Eng, Ray Rischpater**



## **Beagleboard Bone Manuals:**

**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

**Exploring BeagleBone** Derek Molloy, 2014-12-31 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 F. Barrett, Jason Kridner, 2022-11-10 This comprehensive book provides detailed materials for both novice and experienced programmers using all BeagleBone variants which host a powerful 32 bit super scalar TI Sitara ARM Cortex A8 processor Authored by Steven F Barrett and Jason Kridner a seasoned ECE educator along with the founder of Beagleboard.org respectively the work may be used in a wide variety of projects from science fair

projects to university courses and senior design projects to first prototypes of very complex systems Beginners may access the power of the Bone through the user friendly Bonescript examples 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 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

### **Bad to the Bone**

Steven Barrett, Jason Kridner, 2015-11-01 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

**Hacking and Penetration Testing with Low Power Devices** Philip Polstra, 2014-09-02 Hacking and Penetration Testing with Low Power Devices shows you how to perform penetration tests using small low powered devices that are easily hidden and may be battery powered It shows how to use an army of devices costing less than you might spend on a laptop from distances of a mile or more Hacking and Penetration Testing with Low Power Devices shows how to use devices running a version of The Deck a full featured penetration testing and forensics Linux distribution and can run for days or weeks on batteries due to their low power consumption Author Philip Polstra shows how to use various configurations including a device the size of a deck of cards that can easily be attached to the back of a computer While each device running The Deck is a full featured pen testing platform connecting systems together via 802.15.3 networking gives you even more power and flexibility This reference teaches you

how to construct and power these devices install operating systems and fill out your toolbox of small low power devices with hundreds of tools and scripts from the book's companion website Hacking and Pen Testing with Low Power Devices puts all these tools into your hands and will help keep you at the top of your game performing cutting edge pen tests from anywhere in the world Understand how to plan and execute an effective penetration test using an army of low power devices Learn how to configure and use open source tools and easy to construct low power devices Leverage IEEE 802.15.4 networking to perform penetration tests from up to a mile away or use 802.15.4 gateways to perform pen tests from anywhere in the world Access penetration testing operating systems with hundreds of tools and scripts on the book's companion web site

**Application Development with Qt Creator** Lee Zhi Eng, Ray Rischpater, 2020-01-31 Explore Qt Creator Qt Quick and QML to design and develop applications that work on desktop mobile embedded and IoT platforms Key Features Build a solid foundation in Qt by learning about its core classes multithreading File I/O and networking Learn GUI programming and build custom interfaces using Qt Widgets Qt Designer and QML Use the latest features of C++17 for improving the performance of your Qt applications Book Description Qt is a powerful development framework that serves as a complete toolset for building cross platform applications helping you reduce development time and improve productivity Completely revised and updated to cover C++17 and the latest developments in Qt 5.12 this comprehensive guide is the third edition of Application Development with Qt Creator You'll start by designing a user interface using Qt Designer and learn how to instantiate custom messages forms and dialogues You'll then understand Qt's support for multithreading a key tool for making applications responsive and the use of Qt's Model View Controller MVC to display data and content As you advance you'll learn to draw images on screen using Graphics View Framework and create custom widgets that interoperate with Qt Widgets This Qt programming book takes you through Qt Creator's latest features such as Qt Quick Controls 2 enhanced CMake support a new graphical editor for SCXML and a model editor You'll even work with multimedia and sensors using Qt Quick and finally develop applications for mobile IoT and embedded devices using Qt Creator By the end of this Qt book you'll be able to create your own cross platform applications from scratch using Qt Creator and the C++ programming language What you will learn Create programs from scratch using the Qt framework and C++ language Compile and debug your Qt Quick and C++ applications using Qt Creator Implement map view with your Qt application and display device location on the map Understand how to call Android and iOS native functions from Qt C++ code Localize your application with Qt Linguist Explore various Qt Quick components that provide access to audio and video playbacks Develop GUI applications using both Qt and Qt Quick Who this book is for If you are a beginner looking to harness the power of Qt and the Qt Creator framework for cross platform development this book is for you Although no prior knowledge of Qt and Qt Creator is required basic knowledge of C++ programming is assumed [Exploring BeagleBone](#) Derek Molloy, 2019-01-07 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

**The Bird Building Book** Lee Post,2005 This is volume 5 of the 10 Bone Building Books that will be in print This is a two part manual The first part is a step by step guide to preparing and articulating a bird skeleton It is geared to teachers and students with simple illustrated steps The second part is a bone by bone guide to all the bones in a bird skeleton complete with siding information With this one can take a pile of bones and sort out the bird from mammal bones and determine exactly where on the bird each bone came from This has been valuable information for both zoo archaeologists and for students working with bird skeletons

**The Bone Book** Robert W. Mann,2017-06-12 This manual is the culmination of more than 35 years of skeletal analysis teaching forensic anthropology and conducting skeletal research at universities and museums in the U S Asia Pacific Africa and Europe While there are many illustrated human osteology and anatomy books available to students and professionals there is none that approaches the topic of identifying and siding human bones quite like The Bone Book with its large annotated color photographs and easy to follow steps Designed for use in either the lab or the field the book covers the material from top to bottom from cranium to metatarsals and phalanges with the help of more than 400 vivid full color photographs clearly annotated to highlight key features Complex bones such as the cranium are shown in multiple photos including several exploded or disarticulated skulls

showing how the complex bones fit together In addition to the photos the book offers easy to follow instructions and mnemonic tips that guide the reader step by step through the process of identifying every individual bone and which side of the body it came from The Bone Book can be used as a stand alone reference or as a companion to other sources Although most of the photos show adult bones the book also includes helpful photos of subadult bones and even fetal bones which some forensic cases involve The Bone Book will contribute to filling a gap in identifying and siding bones more easily and in that sense add to the body of anthropological anatomical and medical literature It will be useful to anthropology students anatomists surgeons medical examiners and others working with the human skeleton

**Bone Builder's Notebook, Or More Than You Really Wanted to Know about Preparing Animal Skeletons for Articulation** Lee Post,2006

**Manual for the Examination of Bone** Colin Anderson,2019-06-04 First Published in 1982 this book offers a full comprehensive guide into the methods and techniques used for the examination of bone Carefully compiled and filled with a vast repertoire of notes pictures and references this book serves as a useful reference for Students of Medicine and other practitioners in their respective fields

**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

**Building Bear Bones** Lee Post,2004-01-01 This is a heavily illustrated step by step manual on the cleaning and articulation of a bear skeleton from beginning to end It includes detailed illustrations of the individual bones including the tarsals and carpals It is written with enough humor and clarity to appeal to students and teachers as well as professionals who want to construct a museum quality skeleton on a limited budget

**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

*Manual of Internal Fixation in Small Animals* Wade O. Brinker, Marvin L. Olmstead, Geoffrey Sumner-Smith, W. Dieter Prieur, 2013-12-20 This second revised and enlarged edition addresses current



techniques concerned with the implementation of the AO ASIF System in small animal orthopaedic surgery Surgeons who have used the system over the years have now considerable knowledge and experience which they have made available in this text The same individuals have designed and modified special implants which are now available to the Small Animal Orthopaedic Surgeon Sections have been added or modified concerned with severe trauma implant removal and a system for recording fracture type and treatment The book will serve to inform the experienced surgeon of the current situation and at the same time it is still a basic text for the newcomer to veterinary small animal orthopaedics in general and the AO ASIF system in particular

*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

The Small Mammal Manual Manuscript Lee Post, 2012 **Mammal Bones and Teeth** Simon Hillson, 2016-06-16 This guide is designed as an introduction to the basic methods for identifying mammal bones and teeth It is intended to highlight for beginners the main points on which identifications can be made on the bulk of bones and teeth from a small range of

common Old World mammals      *Dissection Manual for the Temporal Bone Laboratory* Khairy Alhag Abu Shara, 2009

**Bones and Joints** Christine Gunn, 2007 This is a clear and concise guide to osteology and arthrology for students needing an introduction to the skeletal system

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