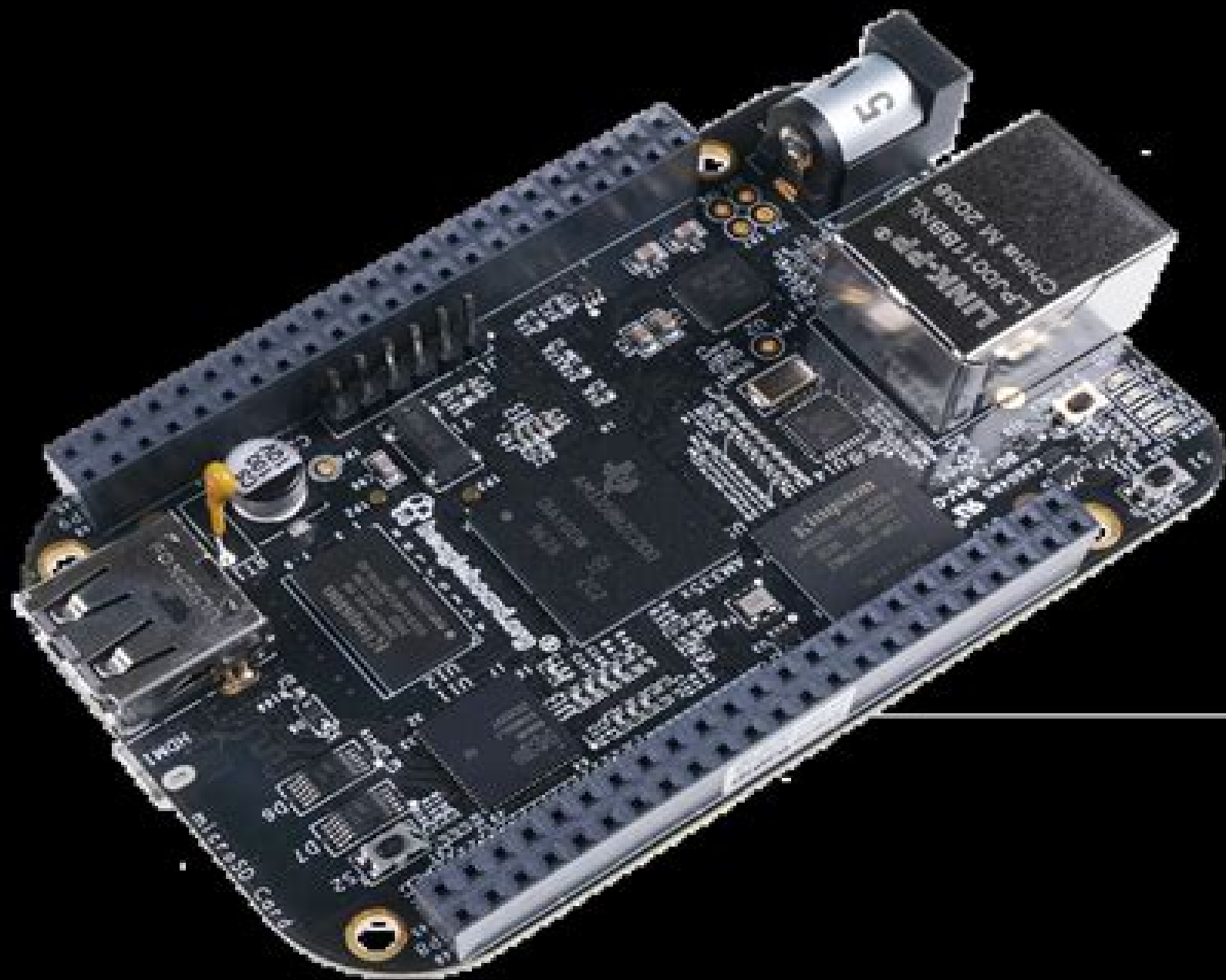




# Beaglebone Black Programming By Example

**Agus Kurniawan**



## **Beaglebone Black Programming By Example:**

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      BeagleBone Black Programming using Matlab Agus Kurniawan, 2015-10-15 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 Web Camera Working with BeagleBone Black Linux Command Measuring and Plotting Sensor Data in Real Time      **BeagleBone By Example** Jayakarthisgeyan Prabakar, 2016-08-31 Learn how to build physical computing systems using BeagleBone Black and Python About This Book Get to grips with the fundamentals of BeagleBone Leverage Python scripts to program BeagleBone for your requirements Build four exciting projects from home automation to a tele controlled robot Who This Book Is For This book is intended for hobbyists and consumers who wish to create impressive projects using BeagleBone You must be familiar with Python programming What You Will Learn Program on BeagleBone Black using Python Interface sensors and actuators to BeagleBone Black Build your own real time physical computing systems Connect physical computing systems to cloud servers Build your own home automation and home security system Build your own tele controlled robot with real time video streaming In Detail BeagleBone is a low cost community supported development platform to develop a variety of electronic projects This book will introduce you to BeagleBone and get you building fun cool and innovative projects with it Start with

the specifications of BeagleBone Black and its operating systems then get to grips with the GPIOs available in BeagleBone Black Work through four types of exciting projects building real time physical computing systems home automation image processing for a security system and building your own tele controlled robot and learn the fundamentals of a variety of projects in a single book By the end of this book you will be able to write code for BeagleBone in order to operate hardware and impart decision making capabilities with the help of efficient coding in Python Style and approach This book is a step by step guide that will walk you through the fundamentals of building different projects using BeagleBone Black

**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

*Effective Robotics Programming with ROS* Anil Mahtani,Luis Sanchez,Enrique Fernandez,Aaron Martinez,2016-12-27 Find out everything you need to know to build powerful robots with the most up to date ROS About This Book This comprehensive yet easy to follow guide will help you find your way through the ROS framework Successfully design and simulate your 3D robot model and use powerful robotics algorithms and tools to program and set up your robots with an unparalleled experience by using the exciting new features from Robot Kinetic Use the latest version of gazebo simulator OpenCV 3 0 and C 11 standard for your own algorithms Who This Book Is For This book is suitable for an ROS beginner as well as an experienced ROS roboticist or ROS user or developer who is curious to learn ROS Kinetic and its features to make an autonomous Robot The book is also suitable for those who want to integrate sensors and embedded systems with other software and tools using ROS as a framework What You Will Learn Understand the concepts of ROS the command line tools visualization GUIs and how to debug ROS Connect robot sensors and actuators to ROS Obtain and analyze data from cameras and 3D sensors Use Gazebo for robot sensor and environment simulation Design a robot and see how to make it map the environment navigate autonomously and manipulate objects in the environment using MoveIt Add vision capabilities to the robot using OpenCV 3 0 Add 3D perception capabilities to the robot using the latest version of PCL In Detail Building and programming a robot can be cumbersome and time consuming but not when you have the right collection of tools libraries and more importantly expert collaboration ROS enables collaborative software development and offers an unmatched simulated environment that simplifies the entire robot building process This book is packed with hands on examples that will help you program your robot and give you complete solutions using open source ROS libraries and tools It also shows you how to use virtual machines and Docker containers to simplify the installation of Ubuntu and the ROS framework so you can start working in an isolated and control environment without changing your regular computer setup It starts with the installation and basic concepts then continues with more complex modules available in ROS such as sensors and actuators integration drivers navigation and mapping so you can create an autonomous mobile robot manipulation Computer Vision perception in 3D with

PCL and more By the end of the book you ll be able to leverage all the ROS Kinetic features to build a fully fledged robot for all your needs Style and approach This book is packed with hands on examples that will help you program your robot and give you complete solutions using ROS open source libraries and tools All the robotics concepts and modules are explained and multiple examples are provided so that you can understand them easily *Learning BeagleBone Python Programming* Alexander Hiam,2015-07-14 BeagleBone is a barebone computer that can be configured and customized for different applications and is almost half the price of a standard computer This book will cover the basics of how BeagleBone Black s hardware interface subsystems work and can be controlled using two popular Python libraries for BeagleBone Black You will be introduced to BeagleBone Black s GPIO PWM ADC UART SPI I2C and eQEP subsystems We will then dive deep into more complex built in peripherals demonstrating different ways to receive input from a user including buttons potentiometers and rotary encoders with the eQEP module We will also learn about interfacing with external devices this will be demonstrated using the serial modules to interface with external devices such as temperature sensors and accelerometers Towards the end of the book we will present a couple of real world problems and demonstrate how to solve them with the skills you ve acquired **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 **Mastering Embedded Linux**

**Programming** Chris Simmonds, 2017-06-30 Learn to confidently develop debug and deploy robust embedded Linux systems with hands on examples using BeagleBone and QEMU Key Features Step by step guide from toolchain setup to real time programming with hands on implementation Practical insights on kernel configuration device drivers and memory management Covers hardware integration using BeagleBone Black and virtual environments via QEMU Book Description Embedded Linux runs many of the devices we use every day from smart TVs to WiFi routers test equipment to industrial controllers all of them have Linux at their heart Linux is a core technology in the implementation of the interconnected world of the Internet of Things You will begin by learning about the fundamental elements that underpin all embedded Linux projects the toolchain the bootloader the kernel and the root filesystem You ll see how to create each of these elements from scratch and how to automate the process using Buildroot and the Yocto Project Moving on you ll find out how to implement an effective storage strategy for flash memory chips and how to install updates to the device remotely once it is deployed You ll also get to know the key aspects of writing code for embedded Linux such as how to access hardware from applications the implications of writing multi threaded code and techniques to manage memory in an efficient way The final chapters show you how to debug your code both in applications and in the Linux kernel and how to profile the system so that you can look out for performance bottlenecks By the end of the book you will have a complete overview of the steps required to create a successful embedded Linux system What you will learn Evaluate the Board Support Packages offered by most manufacturers of a system on chip or embedded module Use Buildroot and the Yocto Project to create embedded Linux systems quickly and efficiently Update IoT devices in the field without compromising security Reduce the power budget of devices to make batteries last longer Interact with the hardware without having to write kernel device drivers Debug devices remotely using GDB and see how to measure the performance of the systems using powerful tools such as perf ftrace and valgrind Who this book is for This book is for embedded engineers Linux developers and computer science students looking to build real world embedded systems It suits readers who are familiar with basic Linux use and want to deepen their skills in kernel configuration debugging and device integration *BeagleBone Robotic Projects* Richard Grimmer, 2013-12-26 Develop practical example projects with detailed explanations combine the projects in a vast number of ways to create different robot designs or work through them in sequence to discover the full capability of the BeagleBone Black This book is for anyone who is curious about using new low cost hardware to create robotic projects that 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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## **Table of Contents Beaglebone Black Programming By Example**

1. Understanding the eBook Beaglebone Black Programming By Example
  - The Rise of Digital Reading Beaglebone Black Programming By Example
  - Advantages of eBooks Over Traditional Books
2. Identifying Beaglebone Black Programming By Example
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Beaglebone Black Programming By Example
  - User-Friendly Interface
4. Exploring eBook Recommendations from Beaglebone Black Programming By Example
  - Personalized Recommendations
  - Beaglebone Black Programming By Example User Reviews and Ratings
  - Beaglebone Black Programming By Example and Bestseller Lists



5. Accessing Beaglebone Black Programming By Example Free and Paid eBooks
  - Beaglebone Black Programming By Example Public Domain eBooks
  - Beaglebone Black Programming By Example eBook Subscription Services
  - Beaglebone Black Programming By Example Budget-Friendly Options
6. Navigating Beaglebone Black Programming By Example eBook Formats
  - ePub, PDF, MOBI, and More
  - Beaglebone Black Programming By Example Compatibility with Devices
  - Beaglebone Black Programming By Example Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Beaglebone Black Programming By Example
  - Highlighting and Note-Taking Beaglebone Black Programming By Example
  - Interactive Elements Beaglebone Black Programming By Example
8. Staying Engaged with Beaglebone Black Programming By Example
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Beaglebone Black Programming By Example
9. Balancing eBooks and Physical Books Beaglebone Black Programming By Example
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Beaglebone Black Programming By Example
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Beaglebone Black Programming By Example
  - Setting Reading Goals Beaglebone Black Programming By Example
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Beaglebone Black Programming By Example
  - Fact-Checking eBook Content of Beaglebone Black Programming By Example
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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