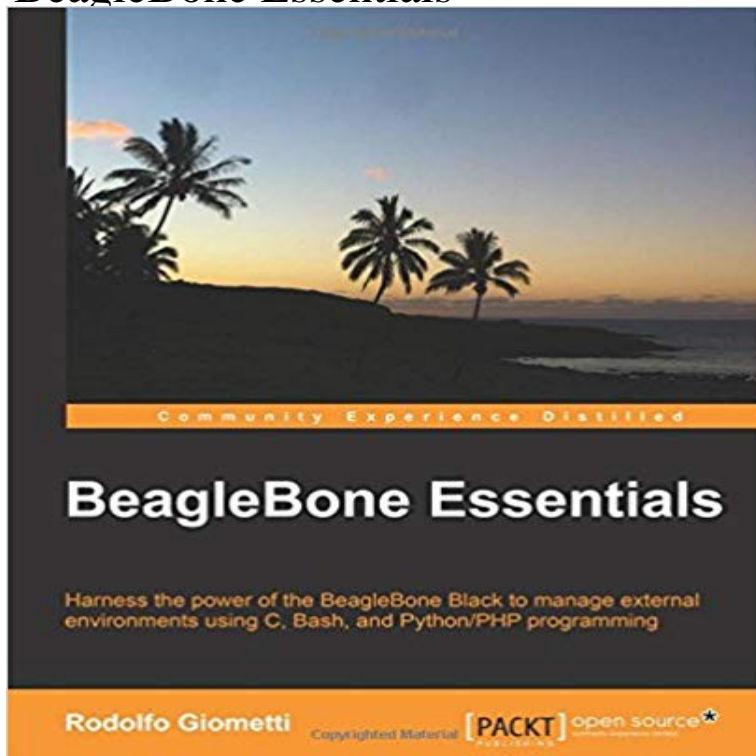


# BeagleBone Essentials



Harness the power of the BeagleBone Black to manage external environments using C, Bash, and Python/PHP programming

About This Book Learn the fundamentals of Beaglebone Black via a detailed tutorial that provides practical examples, from initial board setup to device driver management

Access external peripherals to monitor and control an electronic device

Monitor and control several electronic devices with one of the best embedded computers

Who This Book Is For 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.

What You Will Learn

- Set up and install a Debian operating system for your BeagleBone Black
- Get access to the serial console to manage the BeagleBone Blacks bootloader and kernel
- Discover the pros and cons of native versus cross-compiling C applications
- Compile the Linux kernel from scratch and add custom device drivers
- Ascertain how a system daemon works and how high-level languages can interact with it
- Work with electronic components to build a small circuit
- Develop applications that interact with your circuits connected with the systems GPIOs, serial/USB ports, and I2C/SPI/1-Wire busses
- Use RFID LF readers, temperature sensors, barcode readers, ADC/DAC, and other peripherals to monitor and control your surroundings

In Detail

The BeagleBone Black is an embedded system that is able to run complete GNU/Linux distributions such as Debian or Ubuntu. Having powerful distribution capabilities, and packed with an easily expandable embedded board, the BeagleBone Black is a device that will allow users to build powerful and versatile monitoring and controlling systems. You start off by

learning how to set up the board from scratch; you will be introduced to the concepts of compilation and cross-compilation of user-space and kernel-space applications with some basic debugging techniques. Next, you will move on to high-level programming by using scripting languages; you'll then learn how to get access to different kinds of peripherals such as serial ports, USB devices, I2C/SPI, and 1-Wire. Finally, you will discover how to use or develop system daemons in several programming languages, collect peripheral data, and control a device. Accessing all peripherals and writing good monitoring and controlling programs can be a complex task; it's all too easy to make mistakes early in development that lead to serious problems in production. This guide is an invaluable tutorial if you are planning to use a BeagleBone Black to control or monitor projects.

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