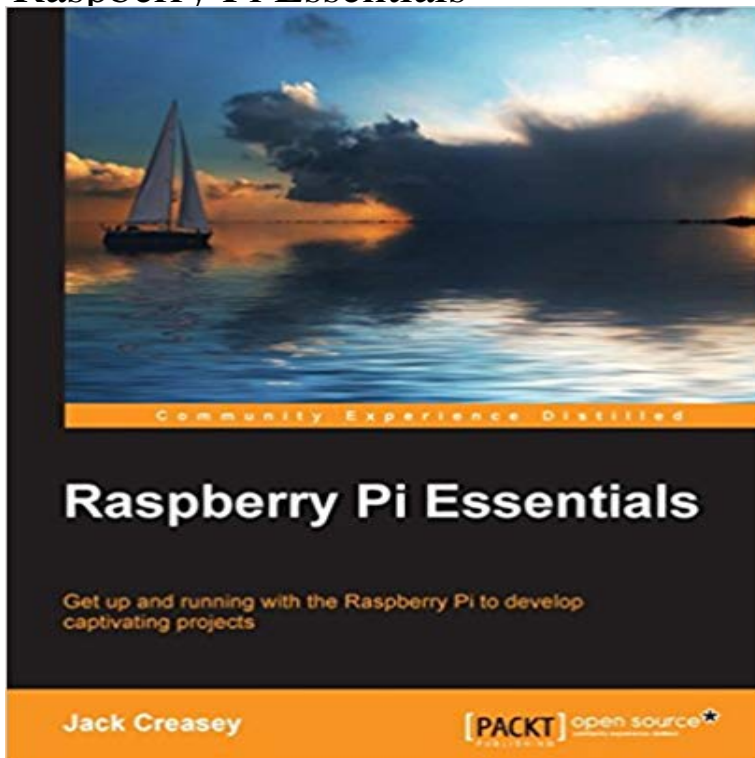


Raspberry Pi Essentials



Get up and running with the Raspberry Pi to develop captivating projects

About This Book

Utilize the exciting capabilities of the Raspberry Pi to build unique audio, video, and robotic designs

Get familiar with the bare essentials of basic programming and hardware tasks on the Raspberry Pi

Learn the Raspbian OS and its standard applications with the help of this easy-to-follow, quick-reference guide

Who This Book Is For

Programmers new to the Raspberry Pi and novice programmers with little to no experience with micro board computing will find the book useful. A basic knowledge of programming languages in general will prove useful for a better understanding of the topics.

What You Will Learn

Build your own full-fledged Raspberry Pi hardware and install the Raspbian OS

Configure the Raspberry Pi development environment and get acquainted with OS configuration and tools

Build a camera-based project using PiCam and USB cameras

Build and configure a stereo audio system using VLC

Explore the Raspberry Pi GPIO to connect to the outside world

Utilize and explore extensive I2C interface support built into the Raspberry Pi to enhance your system

Configure remote access and battery power for a mobile Raspberry Pi

Build a fully functional Raspberry Pi line-following robot using PiCam

In Detail

The Raspberry Pi is an inexpensive, single-board computer system about the size of a deck of cards. This computer can be configured to use a standard-size keyboard, monitor, and mouse. The book begins by teaching you how to build and configure a Raspberry Pi development environment. Next, you will get acquainted with concepts such as connecting USB peripherals for video and image capture, and high-quality audio. Using GPIO peripherals, you will drive LEDs and sense switches and connect SMBUS-controlled peripherals. Over the course of eight

chapters, you will gain experience with desktop tools, the shell command line, and Python scripts. This book includes hands-on projects that involve building a talking clock, creating a camera-based movement detection system, developing an Internet radio, building an RC-servo control program, configuring remote access to a Raspberry Pi, and building a line-following robot.

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