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arduino internals guides you to the heart of the arduino board author dale wheat shares his intimate knowledge of the arduino board its secrets its strengths and possible alternatives to its constituent parts are laid open to scrutiny in this book you ll learn to build new improved arduino boards and peripherals while conforming to the arduino reference design arduino internals begins by reviewing the current arduino hardware

and software landscape in particular it offers a clear analysis of how the atmega8 board works and when and where to use its derivatives the chapter on the hardware heart is vital for the rest of the book and should be studied in some detail furthermore arduino internals offers important information about the cpu running the arduino board the memory contained within it and the peripherals mounted on it to be able to write software that runs optimally on what is a fairly small embedded board one must understand how the different parts interact later in the book you ll learn how to replace certain parts with more powerful alternatives and how to design arduino peripherals and shields since arduino internals addresses both sides of the arduino hardware software boundary the author analyzes the compiler toolchain and again provides suggestions on how to replace it with something more suitable for your own purposes you ll also learn about how libraries enable you to change the way arduino and software interact and how to write your own library implementing algorithms you ve devised yourself arduino internals also suggests alternative programming environments since many arduino hackers have a background language other than c or java of course it is possible to optimize the way in which hardware and software interact an entire chapter is dedicated to this field arduino internals doesn t just focus on the different parts of arduino architecture but also on the ways in which example projects can take advantage of the new and improved arduino board wheat employs example projects to exemplify the hacks and algorithms taught throughout the book arduino projects straddling the hardware software boundary often require collaboration between people of different talents and skills which cannot be taken for granted for this reason arduino internals contains a whole chapter dedicated to collaboration and open source cooperation to make those tools and skills explicit one of the crowning achievements of an arduino hacker is to design a shield or peripheral residing on the arduino board which is the focus of the following chapter a later chapter takes specialization further by examining arduino protocols and communications a field immediately relevant to shields and the communication between peripherals and the board finally arduino internals integrates different skills and design techniques by presenting several projects that challenge you to put your newly acquired skills to the test please note the print version of this title is black white the ebook is full color

library technology reports august september 2011 vol 47 no 6 this issue of library technology reports conceived and coordinated by the american library association s ala office for research and statistics focuses on the evolution and current state of public access technologies in public libraries from the infrastructure services and resources perspectives this issue brings together longitudinal data key issues trends and best practices that will provide library staff with tools for planning advocacy and service enhancements a number of prominent library

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this simple easy to follow guide is designed to be accessible to anyone with a familiarity of basic electrical knowledge

your one stop guide to linux fully revised and expanded get in depth coverage of all linux features tools and utilities from this thoroughly updated and comprehensive resource designed for all linux distributions written by linux expert richard petersen this book explains how to get up and running on linux use the desktops and shells manage applications deploy servers implement security measures and handle system and network administration tasks with full coverage of the latest platform linux the complete reference sixth edition includes details on the very

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