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This handbook provides a comprehensive reference for firmware developers looking to increase their skills and productivity. It addresses each critical step of the development process in detail, including how to optimize hardware design for better firmware. Topics covered include real-time issues, interrupts and ISRs, memory management (including Flash memory), handling both digital and analog peripherals, communications interfacing, math subroutines, error handling, design tools, and troubleshooting and debugging. The companion CD-ROM includes all the code used in the design examples and a searchable ebook version of the text. This book is not for the beginner, but rather is an in-depth, comprehensive one-volume reference that addresses all the major issues in firmware design and development, including the pertinent hardware issues. \* Included CD-Rom contains all the source code used in the design examples, so engineers can easily use it in their own designs

The Firmware Handbook provides a comprehensive reference for firmware developers looking to increase their skills and productivity. It addresses each critical step of the development process in detail, including how to optimize hardware design for better firmware. Topics covered include real-time issues, interrupts and ISRs, memory management (including Flash memory), handling both digital and analog peripherals, communications interfacing, math subroutines, error handling, design tools, and troubleshooting and debugging. This book is not for the beginner, but rather is an in-depth, comprehensive one-volume reference that addresses all the major issues in firmware design and development, including the pertinent hardware issues. Included CD-Rom contains all the source code used in the design examples, so engineers can easily use it in their own designs

Why care about hardware/firmware interaction? These interfaces are critical, a solid hardware design married with adaptive firmware can access all the capabilities of an application and overcome limitations caused by poor communication. For the first time, a book has come along that will help hardware engineers and firmware engineers work together to mitigate or eliminate problems that occur when hardware and firmware are not optimally compatible. Solving these issues will save time and money, getting products to market sooner to create more revenue. The principles and best practices presented in this book will prove to be a valuable resource for both hardware and firmware engineers. Topics include register layout, interrupts, timing and performance, aborts, and errors. Real world cases studies will help to solidify the principles and best practices with an aim towards cleaner designs, shorter schedules, and better implementation! Reduce product development delays with the best practices in this book Concepts apply to ASICs, ASSPs, SoCs, and FPGAs Real-world examples and case studies highlight the good and bad of design processes

Nowadays, embedded systems - computer systems that are embedded in various kinds of devices and play an important role of specific

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control functions, have permeated various scenes of industry. Therefore, we can hardly discuss our life or society from now onwards without referring to embedded systems. For wide-ranging embedded systems to continue their growth, a number of high-quality fundamental and applied researches are indispensable. This book contains 13 excellent chapters and addresses a wide spectrum of research topics of embedded systems, including parallel computing, communication architecture, application-specific systems, and embedded systems projects. Embedded systems can be made only after fusing miscellaneous technologies together. Various technologies condensed in this book as well as in the complementary book "Embedded Systems - Theory and Design Methodology", will be helpful to researchers and engineers around the world.

Embedded Firmware Solutions is the perfect introduction and daily-use field guide--for the thousands of firmware designers, hardware engineers, architects, managers, and developers--to Intel's new firmware direction (including Quark coverage), showing how to integrate Intel® Architecture designs into their plans. Featuring hands-on examples and exercises using Open Source codebases, like Coreboot and EFI Development Kit (tianocore) and Chromebook, this is the first book that combines a timely and thorough overview of firmware solutions for the rapidly evolving embedded ecosystem with in-depth coverage of requirements and optimization.

A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements, technologies, and business models, the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems. It presents state-of-the-art methodological and technical solutions in the areas of in-vehicle architectures, multipartner development processes, software engineering methods, embedded communications, and safety and dependability assessment. Divided into four parts, the book begins with an introduction to the design constraints of automotive-embedded systems. It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies, such as sensors and wireless networks, will facilitate the conception of partially and fully autonomous vehicles. The next section focuses on networks and protocols, including CAN, LIN, FlexRay, and TTCAN. The third part explores the design processes of electronic embedded systems, along with new design methodologies, such as the virtual platform. The final section presents validation and verification techniques relating to safety issues. Providing domain-specific solutions to various technical challenges, this handbook serves as a reliable, complete, and well-documented source of information on automotive embedded systems.

In this practical guide, experienced embedded engineer Lewin Edwards demonstrates faster, lower-cost methods for developing high-end embedded systems. With today's tight schedules and lower budgets,

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embedded designers are under greater pressure to deliver prototypes and system designs faster and cheaper. Edwards demonstrates how the use of the right tools and operating systems can make seemingly impossible deadlines possible. Designer's Guide to Embedded Systems Development shares many advanced, in-the-trenches design secrets to help engineers achieve better performance on the job. In particular, it covers many of the newer design tools supported by the GPL (GNU Public License) system. Code examples are given to provide concrete illustrations of tasks described in the text. The general procedures are applicable to many possible projects based on any 16/32-bit microcontroller. The book covers choosing the right architecture and development hardware to fit the project; choosing an operating system and developing a toolchain; evaluating software licenses and how they affect a project; step-by-step building instructions for gcc, binutils, gdb and newlib for the ARM7 core used in the case study project; prototyping techniques using a custom printed circuit board; debugging tips; and portability considerations. A wealth of practical tips, tricks and techniques Design better, faster and more cost-effectively

Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at <http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other

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innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

This book will help the technician, engineer and user understand the microcontroller-based systems along with the most common problems and their solutions. This book covers design, specification, programming, installation, configuration and of course troubleshooting. · An engineer's guide to the design, applications and troubleshooting of microcontroller-based systems · The introductory chapters on embedded microcontroller architecture and programming are written at the right level with an applications focus for practicing engineers · A highly topical book with a wide readership involved with product design and industrial processes including control systems

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