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Go beyond C by applying modern C in embedded systems to enhance code readability, maintainability, and scalability. Key features bridge the gap between C and modern C for embedded systems through practical examples, learn how to save memory and cut down on runtime computing using compile-time computation techniques, improve your software design skills by applying patterns to solve common problems in embedded systems using C. Purchase of the print or Kindle book includes a free PDF eBook. Book description: Transitioning from C can be daunting with concerns about performance overhead, added complexity, and unfamiliar tooling. Addressing these challenges, Amar Mahmutbegovic, an advocate for modern C in embedded development, shows you how to harness zero-cost abstractions, compile-time checks, and powerful modern C capabilities to preserve performance while achieving safer, cleaner code. This book bridges the gap between traditional C and advanced C, helping you retain the efficiency C developers demand while unlocking the safety and expressiveness of modern C. Starting with a modern development environment setup including a Docker container for seamless example replication, you'll overcome the hurdles of using the C standard library in memory-constrained settings and get acquainted with the embedded template library, `etl`, as an alternative. The book walks you through essential C concepts before exploring advanced topics such as templates, strong typing, error handling, compile-time computation, and RAII through practical examples. You'll implement a sequencer, write a type-safe HAL, and apply patterns like command, state, and observer to solve common embedded development problems. By the end of this book, you'll have learned how to apply modern C to develop robust, modular firmware with performance matching or exceeding hand-coded C solutions. What you will learn: Debunk myths and misconceptions about using C in embedded systems; set up build automation tailored for C in constrained environments; leverage strong typing to improve type safety; apply modern C techniques such as resource acquisition is initialization (RAII), use domain-specific language (DSL) with a practical example using Boost.SML; implement software development best practices including the Solid principle in embedded development. Who this book

is for this book is for embedded developers who primarily use c and want to adopt a modern c approach it introduces fundamental c concepts making it suitable for beginners while also assuming basic familiarity to fully leverage advanced features like compile time computation even those with prior c experience will discover new ways to apply modern best practices to write more efficient and maintainable embedded applications

written by linux and open source expert matt st onge this definitive guide helps you build and secure linux based appliances capable of withstanding the latest cyber threatsall formats include a free pdf and an invitation to the embedded system professionals community key features develop secure user friendly interfaces with streamlined configuration updates and life cycle support learn how to integrate popular security techniques for embedded linux into the development process integrate advanced hardware with software security features to enhance your solution s resilience book description as embedded linux systems power countless devices in our daily lives they ve become prime targets for cyberattacks in this in depth guide to safeguarding your linux devices the author leverages his 30 years of technology experience to help you mitigate the risks associated with hardware and software vulnerabilities this book introduces you to the world of embedded systems the brains behind your everyday appliances it takes you through the different types of embedded systems their uses and the platforms they run on while addressing their unique security challenges and support considerations you ll learn how to build a successful secure and user friendly solution by exploring the critical hardware and software components that form the foundation of a secure appliance we won t forget the human element either you ll find out how to configure your system to prevent user errors and maintain its integrity the book lets you put your newfound knowledge into action guiding you through designing a robust build chain that supports the entire life cycle of your appliance solution enabling seamless updates without your direct involvement by the end of this book you ll be able to adapt your appliance to the ever evolving threat landscape ensuring its continued security and functionality in real world conditions what you will learn understand how to determine the optimal hardware platform based on design criteria recognize the importance of security by design in embedded systems implement advanced security measures such as tpm luks encryption and secure boot processes discover best practices for secure life cycle management including appliance update and upgrade mechanisms create a secure software supply chain efficiently implement childproofing by controlling access and resources on the appliance who this book is for this book helps embedded systems professionals embedded software engineers and linux security professionals gain the skills needed to address critical security requirements during the design development and testing of software for embedded systems if you re a product manager or architect this book will teach you how to identify and integrate essential security features based on the specific platforms and their intended users

this book is a comprehensive resource on vaccines and immunizations for primary care physicians advanced practice providers and trainees we are now seeing a rise in

measles and the potential for rises in other previously rare infectious diseases significantly due to public and physician misconceptions and misinformation about vaccines the text addresses this issue by consolidating historical and current advances in vaccine science from how vaccines are developed to cdc recommendations on how and when to administer them expert authors also address barriers to improving vaccination rates in the u s and offer evidence based recommendations on overcoming those barriers this is an essential guide for primary care physicians family physicians pediatricians internists residents medical students mid level providers and learners for understanding vaccines and improving preventative care for their patients

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by analysing the irish development strategy this book questions its much portrayed success the republic of ireland has followed an export oriented development path relying

on foreign direct investment inflows as the main development agent however this chosen path of development has led to growing industrial social and developmental polarisations despite the indisputable impressive overall growth figures growth is primarily driven by the investing multinationals and the inequality of earnings have been exacerbated thus questioning the Irish growth model's success

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