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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 smf 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

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