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the first book in valvano?s series was arm assembly language programming and architecture. this second book is a one-volume, beginner-level book focused on the ti tiva c series microcontrollers. this book shows you how to build a complete system, from basic level software programming through the design of low-level hardware peripherals. the book teaches you how to interface a chip?s peripherals to custom hardware. this book is written to teach you how to design basic, advanced, and advanced embedded systems. the book is self-contained and does not require any prior embedded systems experience. it introduces the reader to the concept of a software stack, the c programming language, and the arm architecture. this book is not an introduction to microcontrollers or embedded systems. it assumes some knowledge of microcontroller peripherals, the c programming language, and the arm cpu. it covers a broad range of topics, including how to design general-purpose hardware peripherals, how to design a custom-designed peripheral, how to communicate with peripheral devices, how to interface a microcontroller to a computer, and how to use device drivers. the material is presented in an easy-to-understand, accessible manner. the book?s design is such that as the reader becomes more proficient at using the material, the book is laid out in a way that makes it easier to read. this book will help you understand the basics of embedded systems programming and the arm architecture. the book begins with an overview of the arm cpu and the peripherals that it contains, including the hardware interrupt and the i/o port. the book then goes on to cover the following topics:

TI Tiva ARM Programming For Embedded Systems: Programming ARM Cortex-M4 TM4C123G With C (Mazidi Amp; Naimi ARM Series) (Volume 2) Free Download

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