Introduction to Microcontrollers: Architecture, Programming, and Interfacing of the Motorola 68Hc12 (Engineering)

G. Jack Lipovski

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Introduction to Microcontrollers is a comprehensive introductory text/reference for electrical and computer engineers, students, and even hobbyists who have little experience in a high-level programming language. The book helps them understand how a typical microcontroller executes assembly language instructions and addressing modes on microprocessors. The book shows how to program with C++ and compile assembly language statements.
The book utilizes the new 16-bit microcontroller, the Motorola 68Hc12, as the primary example. This "chip" replaces the very popular 8-bit microcontroller, the 68Hc11, as the leading microprocessor for a wide variety of applications and as a core tool for teaching engineering students. This new microcontroller is expected to be popular in industry because of its low cost per unit, low power consumption, and high processing speed.

* First introductory level book on the Motorola 68HC12
* Teaches engineers how a computer executes instructions
* Shows how a high-level programming language converts to assembly language
* Teaches the reader how a microcontroller is interfaced to the outside world
* Uses hundreds of examples throughout the text
* Over 200 homework problems give the reader in-depth practice
* A CD-ROM with HiWare's professional C++ compiler is included with the book
* A complete summary chapter on other available microcontrollers

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