



Microcontroller Programming: An Introduction

By Syed R. Rizvi

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Microcontroller Programming: An Introduction is a comprehensive one-stop resource that covers the concepts, principles, solution development, and associated techniques involved in microcontroller-based systems. Focusing on the elements and features of the popular and powerful Motorola 68HC11 microcontroller IC as a representative example, this book is unlike others, which are often too broad in scope, delving into every topic of concern regarding microcontroller programmers. Instead, this text concentrates on design, architecture, and development, giving developers the tools to develop solid, effective embedded applications.

Packaged with helpful examples, projects, and illustrations, this book gives an in-depth assessment of microcontroller design programming in both assembly and C. By illustrating the relatively sophisticated 8-bit 68HC11 microcontroller, the author—who is a consultant for NASA—provides a firsthand exploration and demonstration of the languages, tools, and techniques needed to build embedded applications. Readers can then apply their newly acquired skills to program other 8/16/32-bit microcontrollers.

For readers who want to do more than just scrape the surface, this book is an enjoyable and immensely beneficial tool to help them cultivate a deeper understanding of microcontroller-based application development. An extensive supplements package is available free of charge to instructors who use the book for a course.

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Microcontroller Programming: An Introduction By Syed R. Rizvi Bibliography

- Sales Rank: #3523110 in eBooks
- Published on: 2016-04-19
- Released on: 2016-04-19
- Format: Kindle eBook



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Editorial Review

Review

"... a good framework to the tools and techniques through the assembly and C languages for building embedded applications. There are discussions on the fundamental concepts of microcontroller programming along with the embedded applications like LCD devices. The approach in the book is a simplified one which is targeted to beginning undergraduate students in computer science/electrical engineering with little programming and hardware experience. ... covers all the essential topics in a typical microcontroller programming. ... plenty of exercises, examples and hands-on codes that complement the discussed concepts, and these items definitely help the students."

?Shaharuddin Salleh, Universiti Teknologi Malaysia,

About the Author

Syed R. Rizvi develops advanced technologies primarily for NASA Langley Research Center. He is the software consultant for the Environmental Management Information Systems at NASA LaRC. He maintains the web site Microcontroller Guide (www.microcontrollerguide.com), which contains hands-on tutorials, discussions, and interesting microcontroller-based projects for both students and hobbyists.

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