Programming and Customizing the 8051 Microcontroller (Tab Electronics Technician Library)

By Myke Predko

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Ready-to-build 8051 microcontroller projects--at your fingertips. Probably the most successful microcontroller on the market today, Intel's legendary 8051 lives on in enhanced versions sold by more than 20 chip manufacturers. Packed with over 30 experiments using Dallas Semiconductor's "HSM" flavors of the 8051 plus the Atmel AT89Cx051 "Flash" based versions, Myke Predko's Programming and Customizing the 8051 Microcontroller puts you in control of the 8051's architecture and instruction set--and even supplies a baker's dozen of ready-to-build example applications, programs and circuits. (You'll see how to create an Atmel AT89Cx061 programmer...a device emulator that exploits the 8051's ability to access external memory...a robot based on the Tamiya "Wall Hugging Mouse"--complete with a TV remote control interface...two real-time 8051 operating systems...and many other exciting projects). Best of all, the included CD-ROM supplies source code for the book's experiments and applications, a demonstration cop of the "UMPS" integrated development environment (IDE), and data sheets for the Dallas Semiconductor and Atmel 8051 compatible devices.

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Editorial Review

From the Back Cover

For work or fun--projects, exercises, and insights of the world's most popular microcontroller. Over 30 experiments and 13 complete projects demonstrate 8051 capabilities. CD-ROM gives you all the software you need to begin developing 8051 applications. A volume in TAB's hit Microcontroller Series. This tutorial/disk package is unique in providing you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug tailor-made applications using. Programming & Customizing the 8051 Microcontroller details the features of the 8051 and demonstrates how to use these embedded chips to access and control many different devices. This book shows you what happens within the 8051 when an instruction is executed, and it demonstrates how to interface 8051's with external devices. Giving you a wide range of experiments and exercises that provide hands-on experience with the 8051, this book also features: clear explanations of how the devices are electronically programmed, along with a design for Atmel 2010 microcontroller programmer that you build; tools for developing 8051 applications; two sample 8051 real time operating systems; help in programming both assembly language and high-level applications; tips to make code development and debugging easier. In addition, extensive appendices give you even more resources for help in developing and debugging 8051 applications, as well as expert tips on avoiding typical application problems.

About the Author

Myke Predko is an advisory engineer working on Intel server products test for Celestica in Toronto, Canada. He has worked as a test engineer, product engineer, manufacturing manager and new products introduction engineer as well as having been awarded four patents in the fields of processor design and product test.

Mr. Predko is author of nine technical books including *Programming and Customizing the PICmicro(R) Microcontroller*, 2/e and *PICmicro(R) Microcontroller Pocket Reference*, two comprehensive guides to the device covered by this book along with *Programming and Customizing the 8081 Microcontroller*; *The Handbook of Microcontrollers*; *PC Ph.D.*; and *PC Interfacing Pocket Reference*.

His interests include robotics and he was one of the designers for the TAB Electronics *Build Your Own Robot Kit*. Mr. Predko currently lives in Toronto with his wife, daughter and two Siberian huskies.

Users Review

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