Designing Embedded Systems with PIC Microcontrollers, Second Edition: Principles and Applications

By Tim Wilmshurst

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PIC microcontrollers are used worldwide in commercial and industrial devices. The 8-bit PIC which this book focuses on is a versatile work horse that completes many designs. An engineer working with applications that include a microcontroller will no doubt come across the PIC sooner rather than later. It is a must to have a working knowledge of this 8-bit technology.

This book takes the novice from introduction of embedded systems through to advanced development techniques for utilizing and optimizing the PIC family of microcontrollers in your device. To truly understand the PIC, assembly and C programming language must be understood. The author explains both with sample code and examples, and makes the transition from the former to the latter an easy one. This is a solid building block for future PIC endeavors.

New to the 2nd Edition:
*Include end of chapter questions/activities moving from introductory to advanced
*More worked examples
*Includes PowerPoint slides for instructors
*Includes all code snips on a companion web site for ease of use
*A survey of 16/32-bit PICs
*A project using ZigBee

*Covers both assembly and C programming languages, essential for optimizing the PIC
*Amazing breadth of coverage moving from introductory to advanced topics covering more and more complex microcontroller families
*Details MPLAB and other Microchip design tools

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- Sales Rank: #509837 in Books
- Brand: imusti
- Published on: 2009-12-17
- Released on: 2009-12-03
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.56" w x 7.50" l, 2.75 pounds
- Binding: Paperback
- 704 pages

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Editorial Review

About the Author
Tim Wilmshurst is the author of Designing Embedded Systems with PIC Microcontrollers. He has been designing embedded systems since the early days of microcontrollers. For many years this was for Cambridge University, where he led a development team building original systems for research applications - for example in measurement of bullet speed, wind tunnel control, simulated earthquakes, or seeking a cure to snoring. Now he is Head of Electronic Systems at the University of Derby, where he aims to share his love of engineering design with his students.

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