Designing Embedded Systems with PIC Microcontrollers: Principles and Applications

Tim Wilmshurst

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Designing Embedded Systems with PIC Microcontrollers: Principles and Applications Tim Wilmshurst 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
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