Microcontrollers: From Assembly Language to C Using the PIC24 Family

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"Microcontrollers: From Assembly Language to C Using the PIC24 Family" provides an introduction to microprocessors and microcontrollers for either the student or hobbyist. It begins by discussing simple microprocessor architecture concepts, moves to assembly language programming in a C language context, then covers fundamental hardware interfacing topics such as parallel IO, asynchronous serial IO, synchronous serial I/O (I2C and SPI), interrupt-driven IO, timers, analog-to-digital conversion, and digital-toanalog conversion. Programming topics are discussed using both assembly language and C, while hardware interfacing examples use C to keep code complexity low and improve clarity. This book's C examples on hardware interfacing strive for code clarity first and optimization second, providing a gentle learning curve and ensuring understanding of the key concepts. The book's numerous examples include complete schematics and working code to operate a number of useful peripherals, including temperature sensors, LCD displays, a robot, and a reflow oven, providing a good starting point for your designs. Numerous lab experiments are included in the appendices, while the companion CD-ROM includes complete source code for all book examples, which can be compiled using the freely available Microchip C compiler and development environment. Visit www.reesemicro.com to obtain supplementary information on the text, the latest version of the library and example code with accompanying documentation, and links to courses which use this text. In addition, an online discussion group promotes interaction with the authors and a forum to discuss PIC24-based projects.

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Allison Price:

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