

Introduction to Embedded Systems: Using Microcontrollers and the MSP430

By Manuel Jiménez, Rogelio Palomera, Isidoro Couvertier



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This textbook serves as an introduction to the subject of embedded systems design, using microcontrollers as core components. It develops concepts from the ground up, covering the development of embedded systems technology, architectural and organizational aspects of controllers and systems, processor models, and peripheral devices. Since microprocessor-based embedded systems tightly blend hardware and software components in a single application, the book also introduces the subjects of data representation formats, data operations, and programming styles.

The practical component of the book is tailored around the architecture of a widely used Texas Instrument's microcontroller, the MSP430 and a companion web site offers for download an experimenter's kit and lab manual, along with Powerpoint slides and solutions for instructors.

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Editorial Review

From the Back Cover

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notes, downloadable tools, and part suppliers.

- Provides textbook coverage of embedded systems, with an emphasis on the practical use of microcontrollers;
- Covers embedded software fundamentals, including software planning, assembly language, and C-language program development;
- Includes detailed treatment of embedded hardware fundamentals, discussing structure, interfacing and configuration of hardware building blocks;
- Emphasizes examples and exercises that reflect real applications for embedded systems design;
- Covers all MSP430 generations up to series x6xx.

About the Author

Manuel Jiménez is a professor in the Electrical & Computer Engineering Department at the University of Puerto Rico at Mayaguez. **Rogelio Palomera** is a professor in the Electrical & Computer Engineering Department at the University of Puerto Rico at Mayaguez. **Isidoro Couvertier** is a professor in the Electrical & Computer Engineering Department at the University of Puerto Rico at Mayaguez.

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