



# Programming 32-bit Microcontrollers in C: Exploring the PIC32 (Embedded Technology)

*Lucio Di Jasio*

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\*Just months after the introduction of the new generation of 32-bit PIC microcontrollers, a Microchip insider and acclaimed author takes you by hand at the exploration of the PIC32

\*Companion website includes source code in C and the Microchip MPLAB C32 compiler

\*Includes handy checklists to help readers perform the most common programming and debugging tasks

The new 32-bit microcontrollers bring the promise of more speed and more performance while offering an unprecedented level of compatibility with existing 8 and 16-bit PIC microcontrollers. In sixteen engaging chapters, using a parallel track to his previous title dedicated to 16-bit programming, the author puts all these claims to test while offering a gradual introduction to the development and debugging of embedded control applications in C.

Author Lucio Di Jasio, a PIC and embedded control expert, offers unique insight into the new 32-bit architecture while developing a number of projects of growing complexity.

Experienced PIC users and newcomers to the field alike will benefit from the text's many thorough examples which demonstrate how to nimbly side-step common obstacles, solve real-world design problems efficiently and optimize code using the new PIC32 features and peripheral set.

## **You will learn about:**

- \*basic timing and I/O operation
- \*debugging methods with the MPLAB SIM \*simulator and ICD tools
- \*multitasking using the PIC32 interrupts
- \*all the new hardware peripherals
- \*how to control LCD displays
- \*experimenting with the Explorer16 board and \*the PIC32 Starter Kit
- \*accessing mass-storage media
- \*generating audio and video signals
- \*and more!

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\*32-bit microcontrollers are becoming the technology of choice for high performance embedded control applications including portable media players, cell phones, and GPS receivers.

\*Learn to use the C programming language for advanced embedded control designs and/or learn to migrate your applications from previous 8 and 16-bit architectures.

\*All code examples and software tools required to get acquainted with Microchip's MPLAB development environment, and to complete all the projects described in the book, are offered in a companion website including the MPLAB C32 C Compiler (free Student Edition) and the full source code for more than 15 entertaining projects.

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