

Designing Embedded Systems with 32-Bit PIC Microcontrollers and MikroC

By Dogan Ibrahim

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The new generation of 32-bit PIC microcontrollers can be used to solve the increasingly complex embedded system design challenges faced by engineers today. This book teaches the basics of 32-bit C programming, including an introduction to the PIC 32-bit C compiler. It includes a full description of the architecture of 32-bit PICs and their applications, along with coverage of the relevant development and debugging tools. Through a series of fully realized example projects, Dogan Ibrahim demonstrates how engineers can harness the power of this new technology to optimize their embedded designs.

With this book you will learn:

- The advantages of 32-bit PICs
- The basics of 32-bit PIC programming
- The detail of the architecture of 32-bit PICs
- How to interpret the Microchip data sheets and draw out their key points
- How to use the built-in peripheral interface devices, including SD cards, CAN and USB interfacing
- How to use 32-bit debugging tools such as the ICD3 in-circuit debugger, mikroCD in-circuit debugger, and Real Ice emulator

- Helps engineers to get up and running quickly with full coverage of architecture, programming and development tools
- Logical, application-oriented structure, progressing through a project development cycle from basic operation to real-world applications
- Includes practical working examples with block diagrams, circuit diagrams, flowcharts, full software listings an in-depth description of each operation

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Editorial Review

About the Author
Prof Dogan Ibrahim graduated from the University of Salford with First Class Honours in Electronic Engineering. He then completed an MSc course in Automatic Control Engineering at the University of Manchester, and PhD in Digital Signal Processing at the City University in London. Prof Ibrahim worked at several companies before returning to the academic life. He is currently a lecturer at the Department of Computer Information Systems at the Near East University. Prof Ibrahim is a Fellow of the IET, and a Chartered Electrical Engineer. His interests are in the fields of microcontroller based automatic control, digital signal processing, and computer aided design.

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