



# PIC Projects and Applications using C: A Project-based Approach

*David W Smith*

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## **PIC Projects and Applications using C: A Project-based Approach** David W Smith

*PIC Projects and Applications Using C* details how to program the PIC microcontroller in the C language. The book takes a learn-by-doing approach, with applications covering topics such as inputs, outputs, keypads, alphanumeric displays, analogue-to-digital conversion, radio transmitters and receivers, data EEPROM, interrupts and timing. To aid debugging, the book provides a section detailing the use of the simulator and in-circuit debugger.

With this book you will learn:

- How to program the PIC microcontroller in C
  - Techniques for using the simulator and debuggers to find faults on your code
  - The ins and outs of interfacing circuits, such as radio modules and liquid crystal displays
  - How to use the PIC on-board functions, such as interrupts and timing modules, and make analogue measurements
- 
- Relevant parts of the language are introduced and explained when required for those new to the subject
  - Core principles are introduced gradually for self-paced learning
  - Explains how and why a software program works, and how to alter and expand the code

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