



# Visual Studio C# 2010 Programming and PC Interfacing

*John Allwork*

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## **Visual Studio C# 2010 Programming and PC Interfacing** John Allwork

This book aims to teach you quickly how to program a PC, using the popular C# high level programming language. The tuition begins with data types and program flow and extends to more advanced concepts such as object oriented programming, threading, internet communications and databases. All code examples used are available -free of charge- from the special support website; you can easily create your own results to demonstrate the concepts explained and reinforce your learning in the process.

Professional quality software tools are downloadable -also free of charge- from Microsoft. The Microsoft Visual Studio 2010 environment is extensively covered with user controls and their properties, methods and events. Detailed guidance is provided for those wishing to control hardware from a PC with PC interfacing chapters which explain the legacy serial and parallel ports, analogue interfacing using the sound card and use of Microsoft DirectX drivers. Interfacing to the ubiquitous USB port is explained in-depth with a detailed hardware and software design for a USB connected PIC-based hardware target included.

This book is complete with the many full program examples, self assessment exercises and links to supporting videos. Support is also provided for University lecturers in the form of accompanying downloadable PowerPoint presentations for most chapters.

C# 2010 Programming and PC interfacing supports C# development using the latest Microsoft Visual Studio 2010 and Microsoft Windows 7 operating system.

This latest book by Dr John Allwork is both an updated version and a compelling extension of his previously published C# 2008 and .NET Programming for Electronic Engineers. It includes an additional 65 pages and three new chapters covering the use of DirectX drivers, the USB port and a detailed example of interfacing to external embedded processors.

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