C Programming For the PC the MAC and the Arduino Microcontroller System

By Peter D. Minns

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Many systems today use the C programming language as it is available for most computers This book looks at how to produce C programs to execute on a PC or a MAC computer. It also looks at the Arduino UNO micro controller and describes how to write C programs usng the Arduino 'wired' C functions as well as using standard ANSI C with direct access to the micro controller registers of the Ardunio UNO. This can lead to improved efficiency of the programs. Most of the Hardware available in the Arduino micro controller is described, and programs provided showing how to control and use them. There is a chapter on how to create your own programs and also how to change a program created to execute on the Arduino so that it can run on a different micro controller, such as the Microchip PIC. This allows the Arduino to be used as a rapid prototype system. The book also contains many working program examples with additional workshop exercises for the reader to study.

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Editorial Review

About the Author
The author is a Lecturer at Northumbria University in the Department of Physics and Electrical Engineering where he has taught Electronics and Computer programming for the last 33 years. He obtained his BSc(H) in Electrical & Electronics in 1978 at the then Newcastle Polythechnic. His PhD was in the investigation of Electrical Power System Distance Protection using Parallel computing which he obtained in 1992. This involved using the programming language occam and the Transputer. His main interests have been in Finite State Machine design using synchrounous and asynchronous technoques, as well as Petri Nets. In addition he has developed microcontroller based system using assembly and C/C++ programming. He has programmed PC's, MAC, and many different microcontrollers in Assembly Language, as well as using C, C++, Pascal and occam programming languages. He lives near Newcastle Upon Tyne with his wife Kathleen and enjoyes Walking, Driving and listerning to Classical and contemory music.

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