



# Beginning C for Arduino: Learn C Programming for the Arduino (Technology in Action)

*Jack Purdum Ph.D.*

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*Beginning C for Arduino* is written for those who have no prior experience with microcontrollers or programming but would like to experiment and learn both. This book introduces you to the C programming language, reinforcing each programming structure with a simple demonstration of how you can use C to control the Arduino family of microcontrollers. Author Jack Purdum uses an engaging style to teach good programming techniques using examples that have been honed during his 25 years of university teaching.

*Beginning C for Arduino* will teach you:

- The C programming language
- How to use C to control a microcontroller and related hardware
- How to extend C by creating your own library routines

During the course of the book, you will learn the basics of programming, such as working with data types, making decisions, and writing control loops. You'll then progress onto some of the trickier aspects of C programming, such as using pointers effectively, working with the C preprocessor, and tackling file I/O. Each chapter ends with a series of exercises and review questions to test your knowledge and reinforce what you have learned.

## **What you'll learn**

- The syntax of the C programming language as defined for the Arduino
- Tried and true coding practices (applicable to any programming language)
- How to design, code, and debug programs that drive Arduino microcontrollers
- How to extend the functionality of C
- How to integrate low cost, off-the-shelf, hardware shields into your own projects

## **Who this book is for**

The book is aimed at a complete novice with no programming background. It assumes no prior programming or hardware design experience and is written for creative and curious people who would like to blend a software and hardware learning experience into a single, enjoyable endeavor.

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