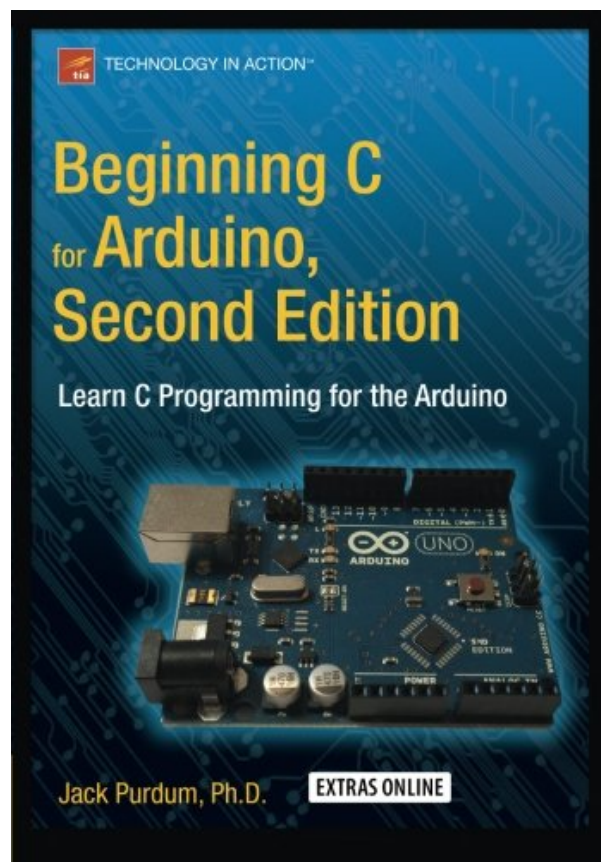


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# Beginning C for Arduino, Second Edition

Learn C Programming for the Arduino



Jack Purdum, Ph.D.

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“The book is highly readable and starts from basics, like how to install the Arduino integrated development environment (IDE). The appendix of the book has a lot of good information on how and where to order the parts and boards. ... I would strongly advise reading the book in a hands-on fashion and not just reading it alone. ... High school and beginning college students will have a blast reading it and implementing the programs. I highly recommend it.” (Naga Narayanaswamy, Computing Reviews, April, 2016)

## About the Author

Jack Purdum, Ph.D. is an educator with 25 years of teaching experience. He has been an amateur radio ("ham") operator for more than 50 years, holds a US patent for imaging software, has authored 16 programming texts, has numerous journal and magazine articles, and is a winner of numerous teaching awards.

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Beginning C for Arduino, Second Edition is written for those who have no prior experience with microcontrollers or programming but would like to experiment and learn both. Updated with new projects and new boards, 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, Second Edition 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 libraries, including an introduction to object-oriented programming

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.

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like me, who needs a refresher

By Marty B.

I was a programmer from 1969 until I retired in 2006. When I retired I thought I was done programming but in January of 2014 I discovered the world of Arduino. I needed to refresh my skills using the C language which I had learned in 1985. I picked up several books designed to teach you how to program these micro controllers but the first edition of this book remained close to my desk to become my reference guide.

The many years that Dr. Purdum has spent as an educator dramatically demonstrates his ability to translate complex programming into simple terms that are very effective in teaching the reader what is going on with the compiler and how to properly write Arduino sketches. As it states on the back cover even if you have no prior experience programming this book is for you. I will add that even if you are a very experienced programmer, like me, who needs a refresher, this book is for you.

When I found out that the second edition was available, I purchased a copy and donated my first edition to the local library. The additional chapters, the updated appendices and the improvement in several of the projects makes this version a real value and worth the money.

3 of 3 people found the following review helpful.

A good Intro to Arduino C

By EM. Sivaguru

A book that guides you through programming steps, explaining in detail what every function does. I started programming by looking at examples of code, but now I am learning to do it systematically. I am now reading it and referring to it for many of the coding I do....Thanks.

1 of 1 people found the following review helpful.

My favorite Arduino programming book, by far, of about 8 that I have read.

By Long Beach Native

What makes this book different is that it goes into much greater depth about PROGRAMMING and not so much about Arduino and related hardware. It's not a "project" book like almost every other book on Arduino. It even teaches you what pointers are, in enough detail that you can actually understand how they work (although I still don't understand when I would actually want to use them in an Arduino project.) Outstanding book in every respect.

I originally purchased and read the first edition of this book, and liked it so much that I bought this updated second edition. The differences are pretty minor, but I wanted to read the whole thing cover-to-cover again anyway, so I bought this one as well.

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