



Embedded C Programming and the Microchip PIC

By Richard H. Barnett, Sarah Cox, Larry O'Cull

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This new book is carefully designed to teach C language programming as it applies to embedded microcontrollers and to fuel knowledge in the application of the Microchip family of PIC microcontrollers. Coverage begins with a step-by-step exploration of the C language showing readers how to create C language programs to solve problems. PIC processors are then studied, from basic architecture to all of the standard peripheral devices included in the microcontrollers. Numerous worked-out example programs demonstrate common uses for each of the peripherals. Readers are subsequently introduced to the built-in functions available in C, to help speed their programming and problem solving. Finally, readers are taken through use of the C Compiler, and learn to efficiently develop custom projects.

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Editorial Review

Review

Preface; Introduction; Chapter 1: Embedded C Language Tutorial; Chapter 2: The Microchip(R) PIC(R) RISC Processors; Chapter 3: Standard I/O and Pre-Processor Functions; Chapter 4: The CCS-PICC C Compiler and IDE; Chapter 5: Project Development; Appendix A: Library Functions Reference; Appendix B: Programming the PIC Microcontrollers; Appendix C: CCS 'ICD-S' Serial-In-System-Programmer/Debugger; Appendix D: Microchip ICD-II Serial-In-System-Programmer/Debugger; Appendix E: The 'FlashPIC-Dev' Development Board; Appendix F: ASCII Table; Appendix G: PIC16F877 Instruction Set Summary; Appendix H: PIC18F458 Instruction Set Summary; Appendix I: Answers To Selected Exercises; Index; CDROM

About the Author

Dr. Richard H. Barnett has been instructing in the area of embedded microcontrollers for the past eighteen years and currently consults actively in the field. Prior to his tenure as a professor of Electrical Engineering Technology at Purdue University, he spent ten years as an engineer in the aerospace electronics industry. Dr. Barnett's teaching awards include the Charles B. Murphy Award as one of the best teachers at Purdue University and Purdue University's Book of Great Teachers, a list of the 225 most influential teachers over Purdue's entire history.

Sarah Cox has a Bachelor of Science degree in both Computer and Electrical Engineering from Purdue University. She is currently the Director of Software Development at Progressive Resources LLC , where she has developed software for projects ranging from small consumer products to industrial products and test equipment. These projects have spanned several fields, among them automotive, medical, entertainment, child development, public safety/education, sound and image compression, and construction. In addition, Ms. Cox has been listed as co-inventor on numerous patent applications.

Senior Operating Member Progressive Resources LLC Mr. O'Cull received a B.S. degree from the School of Electrical Engineering Technology at Purdue University. His career path started in the design of software and control systems for CNC (computer numeric controlled) machine tools. From there he moved to other opportunities in electronics engineering and software development for vision systems, laser-robotic machine tools, medical diagnostic equipment, and commercial and consumer products, and he has been listed as inventor/co-inventor on numerous patents. Mr. O'Cull started Progressive Resources in 1995 after several years of working in Electrical and Software Engineering and Engineering management. Progressive Resources LLC (<http://www.prllc.com>) specializes in innovative commercial, industrial, and consumer product development. Progressive Resources is a Microchip consultant member since 1995.

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