



Building a Programmable Logic Controller with a PIC16F648A Microcontroller

Murat Uzam

Download now

[Click here](#) if your download doesn't start automatically

Building a Programmable Logic Controller with a PIC16F648A Microcontroller

Murat Uzam

Building a Programmable Logic Controller with a PIC16F648A Microcontroller Murat Uzam

Programmable logic controllers (PLCs) are extensively used in industry to perform automation tasks, with manufacturers offering a variety of PLCs that differ in functions, program memories, and the number of inputs/outputs (I/O). Not surprisingly, the design and implementation of these PLCs have long been a secret of manufacturers. Unveiling the mysteries of PLC technology, **Building a Programmable Logic Controller with PIC16F648A Microcontroller** explains how to design and use a PIC16F648A-microcontroller-based PLC.

The author first described a microcontroller-based implementation of a PLC in a series of articles published in *Electronics World* magazine between 2008 and 2010. This book is based on an improved version of the project, including:

- Updates to the hardware configuration, with a smaller CPU board and two I/O extension boards that now support 16 inputs and 16 outputs instead of 8
- An increased clock frequency of 20 MHz
- Improvements to several macros
- Flowcharts to help you understand the macros (functions)

In this book, the author provides detailed explanations of hardware and software structures. He also describes PIC Assembly macros for all basic PLC functions, which are illustrated with numerous examples and flowcharts. An accompanying CD contains source files (.ASM) and object files (.HEX) for all of the examples in the book. It also supplies printed circuit board (PCB) (Gerber and .pdf) files so that you can have the CPU board and I/O extension boards produced by a PCB manufacturer or produce your own boards.

Making PLCs more easily accessible, this unique book is written for advanced students, practicing engineers, and hobbyists who want to learn how to build their own microcontroller-based PLC. It assumes some previous knowledge of digital logic design, microcontrollers, and PLCs, as well as familiarity with the PIC16F series of microcontrollers and writing programs using PIC Assembly language within an MPLAB integrated development environment.

 [Download Building a Programmable Logic Controller with a PI ...pdf](#)

 [Read Online Building a Programmable Logic Controller with a ...pdf](#)

Download and Read Free Online Building a Programmable Logic Controller with a PIC16F648A Microcontroller Murat Uzam

From reader reviews:

Heather Goodson:

Book will be written, printed, or outlined for everything. You can learn everything you want by a publication. Book has a different type. We all know that that book is important point to bring us around the world. Next to that you can your reading proficiency was fluently. A guide Building a Programmable Logic Controller with a PIC16F648A Microcontroller will make you to possibly be smarter. You can feel far more confidence if you can know about everything. But some of you think which open or reading some sort of book make you bored. It is not necessarily make you fun. Why they may be thought like that? Have you seeking best book or ideal book with you?

Margert Lewis:

Hey guys, do you would like to finds a new book to learn? May be the book with the name Building a Programmable Logic Controller with a PIC16F648A Microcontroller suitable to you? The actual book was written by well known writer in this era. The particular book untitled Building a Programmable Logic Controller with a PIC16F648A Microcontroller is the one of several books that everyone read now. This book was inspired many men and women in the world. When you read this publication you will enter the new age that you ever know before. The author explained their concept in the simple way, thus all of people can easily to know the core of this reserve. This book will give you a great deal of information about this world now. To help you to see the represented of the world within this book.

Don Numbers:

A lot of people always spent their free time to vacation or even go to the outside with them family or their friend. Were you aware? Many a lot of people spent they will free time just watching TV, or maybe playing video games all day long. If you wish to try to find a new activity here is look different you can read the book. It is really fun for you. If you enjoy the book that you read you can spent the entire day to reading a reserve. The book Building a Programmable Logic Controller with a PIC16F648A Microcontroller it is very good to read. There are a lot of people that recommended this book. These folks were enjoying reading this book. When you did not have enough space to deliver this book you can buy the particular e-book. You can m0ore very easily to read this book from the smart phone. The price is not very costly but this book provides high quality.

Cassandra Harvey:

Playing with family in a park, coming to see the coastal world or hanging out with friends is thing that usually you will have done when you have spare time, then why you don't try issue that really opposite from that. One activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of information. Even you love Building a Programmable Logic Controller with a PIC16F648A Microcontroller, you can enjoy both. It is fine combination right, you still wish to miss it?

What kind of hang type is it? Oh occur its mind hangout fellas. What? Still don't have it, oh come on its known as reading friends.

**Download and Read Online Building a Programmable Logic
Controller with a PIC16F648A Microcontroller Murat Uzam
#CMPUFOKEZY1**

Read Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam for online ebook

Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam books to read online.

Online Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam ebook PDF download

Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam Doc

Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam Mobipocket

Building a Programmable Logic Controller with a PIC16F648A Microcontroller by Murat Uzam EPub