

# C Programming of Microcontrollers for Hobby Robotics

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**Abstract.** This handout supplies the necessary start up information for programming microcontrollers in C language. The examples of the handout is selected on the amateur robotics applications such as line tracking by a mobile platform, on-off, proportional, proportional-integral-derivative control for servomotor control.

**Keywords:** PIC microcontroller, C for hobby robotics, line tracking, PID controller.

## 1 Introduction

This article is written for the novice robotics hobbyists who want to have a quick start in microprocessor programming, for the IIRC 2008 Robotics Competition. It is a great opportunity for a hobbyist to enjoy the competition with a home-made robot.

A *microcontroller* (or MCU) [1] is a computer-on-a-chip used to control electronic devices. It is a type of microprocessor emphasizing self-sufficiency and cost-effectiveness, in contrast to a general-purpose microprocessor used in a PC. A typical microcontroller contains all the memory and interfaces needed for a simple application, whereas a general purpose microprocessor requires additional chips to provide the same functions.

The microcontroller applications are mainly categorized into the following fields in an alphabetic listing: Audio; Automotive; Wired communication; Computers and peripherals; Consumer Appliances; Industrial Instrumentation; Imaging and video application; Medical Instrumentation; Military and aerospace instrumentation; Mobile and wireless devices; Motor control; Security Equipments; General Purpose Devices; and Miscellaneous Applications. From these fields, robotics uses the wired and wireless communication, image processing, and motor control extensively.

A microcontroller is a must of a mechatronics device which combines intelligence, mechanical actions, and sensory devices for a goal. Robotics and Hobby Robotics are typical fields of mechatronics. In a robot, microcontrollers are embedded to implement intelligent control algorithms.

A low-end microcontroller can execute most of the robotics control algorithms. Implementation of robotics microcontroller applications requires two main components, a microcontroller and its IC-programming tool, and a convenient programming language to express the algorithms. The main objective of this article is an introduction to these item.

# C Programming Of Microcontrollers For Hobby Robotics

**Yi-Tong Ma**



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## Unveiling the Energy of Verbal Art: An Psychological Sojourn through **C Programming Of Microcontrollers For Hobby Robotics**

In some sort of inundated with displays and the cacophony of instant interaction, the profound energy and mental resonance of verbal artistry usually diminish into obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the musical pages of **C Programming Of Microcontrollers For Hobby Robotics**, a charming perform of fictional splendor that impulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that magical opus guides viewers on a psychological odyssey, softly revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their interesting publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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