

Abstract

It is evident that the microcontroller is a hardware programmable device. Once programmed, it can perform the instructions written in the program to execute a specific task. The microcontroller used in this research is programmed for a trajectory movement, for obstacle avoidance and for light detection and for many other applications. These functions require a full automation for the system to be built, i.e. there should be sensors to sense the obstacles.

This is a practical replacement of automatic control system, which has been confronted by many problems intercepting the signals, which control the system.