

Abstract

Title: 'Development of PIC Microcontroller Trainer Module'
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The purpose of this study was to develop a PIC Microcontroller Trainer Module suitable for the laboratory activities of Microprocessors and Microcontrollers. This module will be composed of a program loader and several testing boards for simulation, which includes and drives the Light-Emitting Diodes, 7-segment displays, Led dot matrix displays, stepper motors, LCDs, and Servo motors.

The module itself will be of great help not only for the students but also for the instructors because this study could help each person involve in having ease in knowing the basics of the PIC microcontroller, as well as the simulation of the programs that will be required inside the laboratories.

This study also aimed to improve the function of the ECE laboratory by means of having an additional device that is very effective and low cost than the conventional program loader.