

HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

PIC LEARNING BOARD

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SUMMARY

Intelligent control systems can be found almost everywhere from gadgets to advanced machinery. The best candidate for making an intelligent system is a microcontroller and a very good choice is the PICmicro® series by Microchip.

This project is focused on what is needed to teach someone how to use a PIC microcontroller. The most important things are the Software, a Programmer, a testing board and a set of exercises. Software is available free from Microchip and a programmer was designed as part of a last year project so this project dealt with the board and the exercises.

A board was designed featuring an important microcontroller from PICmicro® series and basic peripheral devices such as, LCD, Keyboard, LEDs, Switches etc. Apart from the board a set of Laboratory Exercises prepared, guiding how to use the peripheral devices and the PICmicro® it self.

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