

HIGHER TECHNICAL INSTITUTE ELECTRICAL
ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DEVELOPMENT OF DEMONSTRATION
CONTROL SYSTEM
(TEMPERATURE/SPEED/POSITION) USING
INDUSTRIAL CONTROLLERS AND SOFTWARE

E.1223

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Summary

The purpose of this project is the development of demonstration control systems. In other words the above description means the automation of life.

What does it mean?

The meaning of automation means that any system or machine can be monitor and work by a computer that a specific software program is install in the computer. The software that is used in this project called GENIE.

The main theme of the project is the methods used and how the computer is communicate with the hardware.

-The methods used are:

(a) ON/OFF method

i. open loop

ii. close loop

(b) PID method

-Computer communicates with the hardware through the ADAM modules and with communication wire RS-232 that is connected to the ADAM-4520.

The main conclusion is to compare and understand the two methods operation and find which of the two methods has more advantages.

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