HIGHER TECHNICAL INSTITUTE

ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

DEVELOPMENT OF A MONITOR PROGRAM FOR MCS-51 MICROPROCESSOR

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SUMMARY

PROJECT TITLE : DEVELOPMENT OF A MONITOR PROGRAM FOR THE MCS-51 MICROPROCESSOR

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SUPERVISOR : CH. THEOPEMPTOU

The aims of this project are :

- To investigate the family of the MCS-51 (8051 Microcontroller) which is similar to the 8031 microprocessor. Basically, it is to realise the way the microprocessor operates according to the internal architecture, like Internal Memory, Ram, Rom, Input/Output ports, and with the help of Programming to set an application that in this case is a monitor.
- To develop and test the required 8051 monitor software that would be suitable in providing all the required facilities to the PC.
- To develop the required software program for serial communication between PC and board.
- To provide a hardware test in parallel with a software test that will provide a communication between board and PC.
- A user's manual is included, to give further information to the user to provide the typical commands normally found in this monitor program.
  The commands that exist are :

DUMP	(D)
GO	(G)
ENTER	(E)
FILL	(F)
REGISTER	(R)
MOVE	(M)

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