# HIGHER TECHNICAL INSTITUTE

## ELECTRICAL ENGINEERING COURSE

## DIPLOMA PROJECT

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### DEVELOPMENT OF A MICROPROCESSOR
### CENTRAL SECURITY SYSTEM

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E/734

Design By

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# ACKNOWLEDGEMENTS

I would like to express my thanks to my project supervisor Dr. M. Kassinopoulos, for his valuable guidance throughout this project.

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Leontiou Nicos

# SUMMARY

**PROJECT NUMBER:** E/734

**TITLE:** DEVELOPMENT OF A MICROPROCESSOR CENTRAL SECURITY
SYSTEM

**DESIGNER:** Mr NICOS LEONTIOU


The MICROPROCESSOR CONTROL SECURITY SYSTEM designed, finds
many applications in real life, and can overcome with a
lot of cases of violation according to the detectors used.
The system was design according to the following project
requirements:

  i. The hardware and software must be based on an
     8085 microprocessor

  ii. The system must be limited to a number of
      cases depending on the design proposed by
      the student.


The MICROPROCESSOR CONTROL SECURITY SYSTEM reads the
incoming signals from the detectors and decides whether
there is a violation or not.If YES it escapes from
scanning loop and sends warning message,sets the alarm in
stand by mode and waits for the password.If within a
certain time the password is not inserted through the 20-
key keyboard the alarm will be activated.If the password
is entered then the system is disabled until the user
enables it again.The enabling of the system is in such a
way designed, so as to allow the user a time interval for
to exit the building, if he wishes, before is enabled.
As other options, two function keys are provided used to
read from and write in memory, basically used to change
the password code.


I personally believe that this can be a promising
MICROPROCESSOR CENTRAL SECURITY SYSTEM and I say this
because the design of the system makes it extremely
flexible, since it is completely software controlled, and
hence ready for all improvements.

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