HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

TEMPERATURE CONTROLLER

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E/1025

1996

H.T.I

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JUNE 1996

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Project report submitted by

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in part of the award of
diploma of Technical Engineer in
electrical Engineering of the
HIGHER TECHNICAL INSTIDUTE ,
NICOSIA

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TO MY PARENTS

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INTRODUCTION

The objective of this project is to design a construction that would control and adjust the temperature in a certain place(in this case four different rooms).
With the technology in our days it is very easy to design and construct a device that will serve our demands in every possible way.
The following are some of the benefits of this device:

1. Automatic adjustment of the temperature
2. Save money and a lot of trouble
3. Easy to install in houses, factories, warehouses, offices and even in cars

The Kimberry Card is responsible for the control and adjustment of the temperature in this project. Also in real life the kimberry Card could easily be interfaced with other devices. The card it self contains an 8085 microprocessor and an 8155 programmable I/O port chip. This card is cheap and with the help of a simple software program and special temperature sensors could easily control and adjust the temperature.
You could also use this card for other applications by simply changing the software and the type of the sensors.
Some applications are:

- fire alarms
- intruder alarms
- production control

etc(see manual in Appendix1)

The objective is to design and construct the two small interface card units(input and output cards) which along with the required software reads the temperature in each room respectively and adjust it according to user's requirements.

ACKNOWLEDGMENTS

I would like to express my sincere thanks to my parents for their financial and most of all their moral support during my three years of study at the H.T.I.

I would also want to express my sincere thanks to my project supervisor, Mr M.kassinopoulos for his helpful guidance throughout the project period.

Last but not least I would like to thanks my fellow students, Mr A. Tsamis and Mr A. Papacharalambous for all the help they have given me in completing this project.

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NICOSIA 1996