

HIGHER TECHNICAL INSTITUTE
ELECTRICAL ENGINEERING COURSE

DIPLOMA PROJECT

SPEED CONTROL OF A DC MOTOR

E/849

BY

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1993

ACKNOWLEDGMENT

The author wishes to express his thanks to the following people:

Dr.C.Marouchos to whom I am particularly grateful for his supervision and his continual encouragement.

My parents who have assisted me with financial support.

The technicians who provided me with the necessary equipment required for this project.

ABSTRACT

This project is concerned with the design and implementation of a system that controls the speed of a dc power motor using a chopper circuit controller by 8085 microprocessor.

The design must take into consideration provision of a wide range of speed for the motor. Also the motor must have smooth starting and an overload protection.

The control strategy of the design is based on the duty cycle of the MOSFET switch (its ON/OFF period) through which the motor will be connected to 110V supply. This requires both digital and analogue hardware together with software to control the speed of the motor.

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