DEPARTMENT OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA
CAWANGAN PULAU PINANG

FINAL REPORT OF DIPLOMA PROJECT

DIGITAL CLOCK AND AZAN READER

FEBRUARY 2005

STUDENT NAME:

MOHD ANUAR BIN MOHD HASAN
2002416134

SYED MUHD. ABD. MATIN B IN SYED MAT DAUD
200241642923

SUPERVISOR'S NAME: CIK FARIDAH BINTI ABDUL RAZAK

ACKNOWLEDGEMENT

During our project completion in KEU380; we have faced many problems but with the supports and guides from many people, we can finally finished the project.

First, Alhamdulillah and then we would like to thank our supervisor, Cik Faridah binti Abdul Razak and for her guide, kindness, support and concern to our project. She is very consistent to give her ideas, suggestion and especially her supports that are important to us.

Then, we would like to thank to UiTM Staff who giving us support to use the lab utilities. Finally, we would like to thank to every persons that are very generous to help us by contribute their ideas and decision. We will never forget everything that they have done for us. May Allah S.W.T bless them.

ABSTRACT

This project is probably using many ICs. All the IC is from the TTL family IC. So our project consists and concludes the large schematic and pattern layout. Our project is different from the other digital clock that available in the market because all of the function of the clock (including the alarm and other features) are all integrated into one low-power chip about a millionth of a watt. That chip is embedded directly into the circuit (tiny blob of black plastic) powered by low voltage while our circuit is powered by 5V DC supply.

TABLE OF CONTENTS **PAGE**

1. INTRODUCTION

1.1 Background

Time management is important for every body. For many years, the people using the device that indicates the time called 'clock'. However, over last several decades, electronics have found extensive use in much design such as in electrical appliances, calculators, computers, machines, TV's, game and other applications due to their low current requirement and small size. Their usage has become widespread in designing in clock that we know as digital or electronic clock. Recent development in digital technology enable to lead the generating of time setting that could required us to set the desired time (Azan reader).