PRAYER TIME REMINDER

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In the Name of Allah

Most Gracious Most Merciful

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ABSTRACT

This project paper reports the successful development of digital prayer time reminder. The equipment is designed to remind user the approximate start time of each prayer time daily all year round. Though the problem look simple ingenious procedure in correct choice of technology is required for its successful implementation.

This report contains seven chapters. The first chapter introduces the background of the design of the project. Chapter two analysis the variations of prayer time through out the year. From the analysis a method was chosen to simplify the start of prayer time indication. Chapter three details the concept, the design, the mounting the implementation of the chosen procedure. Chapter four explains the software design of the equipment. The result of the project is describes in chapter 5 with chapter 6 and 7 discuss the problem in the design and the future prospect of the equipment.

CHAPTER 1

INTRODUCTION

1.1 The basis of design

In Islam, there are 5 different of prayer daily named Subuh, Zohor, Asar, Maghrib and Isyak. The prayer daily time varies weekly because it follows the rotation and the orbiting the earth round the sun. Due to this, the prayer time has its yearly cycle, so that the time repeats on the same calendar date. To correctly determine the start of the daily prayer time, an annual prayer timetable is required. This project is designed to help users do away with the prayer timetable in knowing the approximate start of daily prayer time through the year.

1.1 Prayer time

The research and calculation to decide the prayer time had been done for a long time [6]. The prayer time vary according to the time of the year, and the position on the earth surface.

1.2.1 Variatiom of different prayer time in every country [8]

- Entering Latitudes and longitudes (see Apendix F) will not be sufficient to calculate prayer times. Time zone is another input required by the user. A user may not know the Time Zone applicable to a given longitude.

- The Daylight Saving Times (DST), and its start and end are different in different countries. This information is not available from any single authentic source. To calculate Prayer Times correctly these data are critically important.