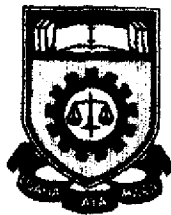


## **FS-1502C DISPLAY UNIT**

**This 'Projek Ilmiah' is presented in partial fulfillment for the award of the  
Bachelor of Electrical Engineering (Honours)  
UNIVERSITI TEKNOLOGI MARA**



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## **ACKNOWLEDGEMENT**

In the name of Allah, who is Most Gracious, Most Merciful and HIM alone is worthy of all praise.

First, I would like to take this opportunity to express my gratitude to my supervisor, Ir. Dr. Shah Rizam Bt. Mohd Shah Baki who has been very kind and patient in her advice and guidance in the preparation of this dissertation. As my supervisor, she has been a constant source of inspiration. Her encouragement, patient and critical appraisal have enabled me to complete this thesis.

Last but not least, I wish to express my deepest gratitude to my dearest family for their constant support and encouragement, especially to my mother and father who has given me endless love and encouragement. I would not have been able to be where I am today, without their love and support.

## **ABSTRACT**

This Projek Ilmiah presents a Moving Message Electronic Display unit Model FS-1502C interfaced with a personal computer using a software known as Visual Basic 6.0 through the personal computer parallel port. The FS-1502C display unit uses 3 channel out of DB 25-pin parallel port to serially transfer information from the personal computer to the display unit. In general, the FS-1502C Display unit is used to display useful information such as messages and graphical sign. It has a wide variety of applications ranges from sales displays, reception areas and to even use as a large digital clock.

The project only focuses on the hardware part, introducing definitions and operation concepts of the FS-1502C Display unit major components. It also discusses the interfacing system used by the FS-1502C Display unit to communicate with a personal computer.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

People now are living in an age that sociologists have called the computer revolution. Like any true revolution, it is widespread and all pervasive and will have a lasting impact on society. It is as fundamental to our present economic and social order as was the industrial revolution in the nineteenth century. It will affect the thinking patterns and lifestyles of every individual. Where as the major effect of the industrial revolution was to augment our physical powers, the computer revolution is extending our mental power [3].

The microprocessors introduced in 1971 to 1972 were the first generation systems. In 1973, the second-generation systems, typified by the Motorola 6800 and the Intel 8080-8 bit units, were introduced. The distinction between the first and the second-generation devices was primarily the use of newer semiconductor technology to fabricate the chips. This new technology resulted in a fivefold increase in instruction execution speed and higher chip densities. Since then, microprocessors have been fabricated using a variety of technologies and designs [15].

### 1.2 Revolution of Display System

Over the past years, people use many ways to give information. Nowadays there are a lot of new and sophisticated technologies being developed to provide an easier way for people to send information. One of the commonly used for the past few years is the *Moving Message Electronic Display System*. It has been recognized to be a very effective tool to deliver messages electronically [5].