FACULTY OF ELECTRICAL ENGINEERING

UNIVERSITI TEKNOLOGI MARA

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FINAL REPORT:

REMOTE CONTROLLED CURTAIN OPENER AND CLOSER

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TABLE OF CONTENTS

ACKNOWLEDGEMENT

We would like to express our gratitude and appreciation to all those who gave us the possibility to complete this report. A special thanks to our final year project supervisor, Miss Fazlinashatul Suhaidah, whose help simulating suggestions, helped us to coordinate our project especially in writing this report and have given her full effort in guiding us in achieving the goal as well as her encouragement to maintain our progress in track. Lastly, we would like to appreciate the guidance given by other lecturers as well as the panels especially in our project presentation that has improved our presentation skills by their comments and tips.

ABSTRACT

First of all, this report is to state clearly about the project made which are the remote controlled curtain opener and closer. This project is made in order to fulfil the objectives that been made which are to identify function of motor, the role of every component used in the circuit in this project and analyze the connectivity of the remote used with the circuit. Significantly, this project able to create a simple close loop system of opening and closing a curtain which driven by electrical motor used. The main component of this project is the DC Low Speed Motor, RF transmitter and RF receiver. These three components will be connected as the RF transmitter will gives the input signal from the user and the RF receiver which linked together with the DC Low Speed Motor will get the signal either to open or close the curtain. Besides, the Arduino is used to indicate the opening and the closing the curtain by controlling the lighting pattern of the LEDs used. The control circuit is connected directly with the power supply and the remote will use the suitable battery so that the design of the remote is flexible enough for user to use the curtain opener and closer. Therefore, this project able to ease people with improved technology that the usual design besides a new technology is developed to build a smart home.

CHAPTER 1

INTRODUCTION

1.1 Background of Study

The curtain opener and closer circuit are designed to open and close the curtain either at home or office by pushing the remote buttons. Therefore, the basic concept is that the curtain is driven by an electrical motor that is connected with a remote to control the mechanism of the curtain either to be opened or closed. Significantly, this circuit able to create a simple control system that eases the opening and closing of the curtain. Therefore, it is suitable for household use particularly for small doors and windows which also has affordable costing.