

CAR PARKING GUIDANCE SYSTEM

MUHAMMAD AIMAN ASRAF BIN ROSLAN MUHAMMAD FIKRI IKHWAN BIN SAIFUDDIN

TL 175 .M84 2015

FACULTY OF ELECTRICAL ENGINEERING UNIVERSITI TEKNOLOGI MARA MALAYSIA

MARCH 2015

ACKNOWLEDGEMENT

First of all, we would like to say thank you to our supervisor Sir Rozi that always been there for us to do this final year project 1 and 2. Without him we cannot proceed or done anything to finish this project. He gives us so many useful advices and make our project become better.

Next, to our parent and friends that always support us and giving idea to make this project complete and spend some of their money to buy all the components that are needed to complete this project. Thank you for the finance and support from behind.

Moreover, we would like to thank to our friends that give us some advices and correct our project if there is any mistake that we don't realize. It helps a lot in completing this project.

Other than that, we also want to thank to Sir Faisal who is one of electrical engineering lecturer that lends us some of the equipment that we didn't afford to buy. He also gives us some useful advices in completing this project.

Lastly, we would like to say all praise to god because without him we can't even write this project and think to make this project accomplish.

ABSTRACT

The main purpose of this project is to implement the skills and knowledge from our study in course Electrical Engineering. Furthermore, we hope the objective of this project are achievable and give the opportunity for mall management to create a better parking system in the future. The first parts of this project are discussions with the supervisor. Which are handle in every week, to create and form work the circuits. Final Year Project 1 are mainly the embodiment of our real project which are only consist of planning and construct the circuit use for Final Year Project 2. The second parts of this project are about teamwork with partner which is really important to ensure the works are done by the due date. In progress of this project, the works are given out equally.

TABLE OF CONTENTS

ACKNOWLEDGEMENTS ABSTRACT LIST OF FIGURE LIST OF ABBREVIATION

CHAPTER 1 INTRODUCTION

1.1 Background of Study	1
1.2 Problem Statement	2
1.3 Objectives of Research	3
1.4 Scope of Study	3

CHAPTER 2 MATERIALS AND METHODS

2.1 Methodology4	
2.2 Project Planning5	I
2.3 System Operation	
2.4 Flow chart7-6	8
2.5 Experimental set up8-1	7
2.6 List of components	

CHAPTER 3 CIRCUIT DESIGN AND OPERATIONS

3.1 Schematic Diagram

3.2 Circuit Operations	21
------------------------	----

CHAPTER 4 RESULT AND DISCUSSION

4.1 Software Simulation Result	22
4.2 Hardware Implementation Result	23-28
4.3 Circuit Testing and Troubleshooting	29
4.4 Data Analysis	30

CHAPTER 5 CONCLUSION AND RECOMMENDATION

5.1 Summary	
5.2 Conclusion	32
REFERENCES	
APPENDICES	

LIST OF FIGURES