RESERVATION PARKING SYSTEM

MUHAMAD ANIQ AYADI BIN KAMALUDDIN
SHAHIRAH BINTI BAHAROM

A project report submitted to Faculty of Electrical Engineering, Universiti Teknologi MARA in partial fulfillment of requirements for the award of Diploma of Electrical Engineering.

FACULTY OF ELECTRICAL ENGINEERING
UNVERSITI TEKNOLOGI MARA
MALAYSIA

SEPTEMBER 2015

ACKNOWLEDGEMENT

We would like to express our deepest appreciation to all those who provided us the possibility to complete this report. A special gratitude we give to our final year project supervisor, Sir Muhammad Rajaei bin Dzulkifli, whose contribution in inspiring suggestions and encouragement, helped us to manage our project especially in writing this report.

Moreover, we would like to acknowledgement with much gratefulness the crucial role of other lecture, Sir Izril who help us with the selection of pin in PIC microcontroller for ours project. Special thanks goes to both of us, Muhamad Aniq Ayadi bin Kamaluddin and Shahirah binti Baharom, whose help each other and contribute understanding to assemble the parts and gave suggestion about the task "Reservation Parking System". Next, many thanks go to the supervisor of our project again, Sir Muhammad Rajaei bin Dzulkifli whose have invested his full effort in guiding the term in achieving the goal. We have to appreciate the supervision given by other supervisor as well as the panels especially in our project presentation that has improved our presentation skills, thanks to their comment and advices.

Finally, we want to thanks to our whole friends, since all of us help each other, give others opinion and sometimes give a lot of idea to improve our project.

ABSTRACT

Reservation parking is a parking has been reserved for the owner's car park.It can be searching through online, mostly the answer to that ques is the sale of goods in online. Hard to find example of project that relevant with our idea of project. In our project, we improvise the product by controlling the system with bluetooth via mobile phone. We also use PIC16F877A as our microcontroller that rarely combined with HC-05. The process that might be related in our project is the receiver and transmitter of two devices. When mobile phone sent a character via bluetooth and receive by HC-05. The HC-05 will transmit the character to PIC. This system depends on the character that set and sent via bluetooth. For example, if we set 'a' and sent it as for the servo motor lift up. Next, if we set 'b' and sent it as for the servo motor to lower the signboard of reserved. Those system would be apply in our project. Finally, the design for our product must be latest design to make it more fashionable and trendy. This system of parking must be commercial since we use a latest technology.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	APPROVAL SHEET	iii
	CANDIDATE OF DECLARATION	iv
	ACKNOWLEDGEMENT	v
	ABSTRACT	vi
	TABLE OF CONTENTS	vii
	LIST OF FIGURES	ix
	LIST OF TABLES	xi
	LIST OF ABBREVIATION	xii
1	**INTRODUCTION**	
	1.1 Introduction	1
	1.2 Background of Study	1
	1.3 Problem Statement	2
	1.4 Objectives	2
	1.5 Scope of Project	2
	1.6 Project Contribution	3
2	**LITERATURE REVIEW**	
	2.1 First Review	4
	2.2 Advertisement Online	5
	2.3 Programming Software	9
	2.4 Simulation Software	11
	2.5 AT Command Mode	11
	2.6 Advantages and Disadvantages	12

3	**METHODOLOGY**	
	3.1 List of Components	14
	3.2 Peripheral Interface Controller (PIC)	15
	3.3 Servo Motor (MG945)	16
	3.4 Bluetooth (HC-05)	18
	3.5 Block Diagram	19
	3.6 Flow Chart	21
4	**RESULT & DISCUSSION**	
	4.1 Result of Simulation	24
	4.2 Change That Have Been Modified	28
	4.3 Discussion	28
5	**CONCLUSION**	
	5.1 Conclusion	36
	5.2 Recommendation	37
	REFERENCES	38
	APPENDICES	40
	APPENDIX A	
	APPENDIX B	