FINAL YEAR PROJECT REPORT DIPLOMA OF MECHANICAL ENGINEERING



FACULTY OF MECHANICAL ENGINEERING UNIVERSITI TEKNOLOGI MARA SHAH ALAM

TOPIC:-**MECHANIZED PARKING SYSTEM**

PREPARED BY:-

RAMLAN SALIM I/C UiTM: 96335968

ZAITON WAHID I/C UiTM: 96176360

MARCH 2002

ACKNOWLEDGEMENT

In the name of Allah, the most gracious and merciful. We praise Him and we seek His blessing on His noble Prophet s.a.w. First, we give thanks to Allah who has enabled us to completed this final project.

We would like to express our thanks to project adviser **Dr. Solomon Darius Gnanaraj** for guidance and assistance in completing this final project. His patience and contribution of ideas have made this report meaningful.

We also grateful to Hotel Malaya for allowing us to visit the and take some photographs.

Our sincere thanks is for the Car Park Supervisor for his assistance in carrying out this project.

We would like to convey our sincere thanks to Intellectual Properties Department, SIRIM Berhad, Shah Alam for assisting us in providing valuable information and documents.

Not forgetting our colleagues who had given us their full support for completing this project work. Last but not least, we thank our family members for giving emotional support and financial support for successfully completing this work.

"May ALLAH Bless You All".

ABSTRACT

This project work report the procedure for designing a simplified mechanical parking system model based on the design implemented at Hotel Malaya. It is also about the need for the new design, the study of the mechanical system and designing the parking space. The use of Mechanized Parking System to the growth of an organization is documented.

AutoCAD 2000 Program is used to design and draw the exploded drawing, assembly drawing and the detailed drawings of the parking system.

The model has been designed using low cost materials with a sole aim of demonstrating how the system works.

TABLE OF CONTENTS

Contents		Page
Acknowledgement		iii
Abstract		iv
Objective		v
Table Of Contents		vi-vii
CHAPTER 1	Introduction	viii
	1.1 Introduction	1
	1.2 Hassle-Free Parking	4
	1.3 Public Parking Control and Enforcement	7
	1.4 Some Impact of Parking	9
	e e	
CHAPTER 2	Existing Design in Mechanized Car Parking	ix
	2.1. Introduction	13
	2.1.1. Elevator Turntable Parking System	13
	2.1.2. Double – Pallet Parking System	13
	2.1.3. Rotary Vehicle Parking System	14
	2.2. Hotel Malaya-Puzzle Electronic Parking System	18
	2.2.1. Photographs	19
	2.2.2. Drawings	25

CHAPTER 3	Model of A Mechanized Car Park	X
	3.1 Introduction	26
	3.2 General View of the Model	26
	3.3 Description of Different Parts of the Model	29
	3.4 Material used in making the Model	31
	3.5 Operation of the Model	33
	3.6 Advantages of Mechanized Car Park	47
CHAPTER 4	Conclusion, Comments and Recommendation	xi
	4.1 Conclusion	48
	4.2 Comments	48
8	4.3 Recommendation	49
Bibliography		50
	•	
Appendix		xi