Monitoring of Smart Car Parking System Using CX-Programmer and CX-Designer

A thesis submitted in partial fulfillment of the requirement for the award of Bachelor Engineering (Hons) Electrical



ACKNOWLEDGEMENT

Alhamdulillah with the name of Allah S.W.T, the Most Gracious, Ever Merciful, who has given me the strength and ability to completed this project and thesis. I would like to extend my gratitude to my supervisor, Dr. ROSIDAH SAM for her advice and giving me the chance to complete my project under her supervision. She always give me the great opinion to make this project more creatively and excellent. Without her superior knowledge in this field of study, this project might not be done properly. Besides that, I also would like to express my sincere appreciation to all my fellow friends for their help in this project, also give moral supports and guidance in this task. All the kindness and helping will always be remembered.

ABSTRACT

This paper presents a monitoring system of a smart parking system using CX-Programmer and CX-Designer. The Project is to design a multilevel parking lot in a building, using a lift system to bring the car to an empty parking lot [1].CX-Designer is used to design the multilevel parking lots and the control system was develop by using CX-Programmer. [2][3]. Drivers will have the only truth that can use the parking. Vehicle owners have to use the code card facilities can bring their cars into the elevator of the building block and select an empty parking lot on a monitor that is found in the block. Car owners can see the movement of their car on the computer monitor.

.

TABLE OF CONTENTS

CHAPTER	PAGE
DECLARATION	i
ACKNOWLEDGEMENT	ii
ABSTRACT	iii
TABLE OF CONTENT	iv
ABBREVIATIONS/ SYMBOLS/ TERMS	vii
LIST OF FIGURES	viii
CHAPTER ONE : INTRODUCTION	
1.1 Overview	1
1.2 Objective	3
1.3 Scope of Work	4
1.4 Problem Statement	4
1.5 Thesis Organization	5

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

The world today is moving very fast with new technologies, introduction of new technologies are helping users in present times. Rapid development also causes many undesirable things such as car parking problems, especially in public places and in homes that have a small space. These technological developments have taken the opportunity to solve this problem. Multilevel parking system is also one of technological developments [7]. This parking system can help users who have a problem parking the car.

Multilevel parking systems mostly use the lift system to transport the vehicle to be brought to the parking lot. Lift system is the most suitably qualified control system for transporting cars an efficient and systematic way in a high building. Now, a lot of apartments, multilevel parking facilities with a lift system are particularly suitable for use in high-rise buildings. Typically, the higher the building, the more multilevel parking facilities need to be provided, because more and more consumers need to park their cars [4]. Therefore, a multilevel parking system with lift facilities is the solution to carry up and down the car to the parking space.