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**FINAL REPORT:
AUTHORISED DOOR SECURITY SYSTEM**

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SEMESTER JUNE-OCTOBER 2016

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ACKNOWLEDGEMENT

In the name of Allah, the most compassionate, the most merciful. We thank Allah for giving us the chance to complete the Final Year Project with great success in Universiti Teknologi Mara (UiTM) Cawangan Pulau Pinang.

Firstly, we would like to offer our sincere gratitude to Mrs. Nadiah Ismail, our supervisor for guiding and teaching us throughout our Final Year Project progress. We also would like to express our gratitude to the Final Year Project committee at UiTM Cawangan Pulau Pinang as they have done a lot to help us to be well prepared in completing our Final Year Project.

Next, our Final Year Project's panels, Mrs. Belinda and Mrs. Norhasnelly whom willingly sacrifice their time to evaluate our working performance and project's progress throughout the Final Year Project period. Both of them gave their full support and advices for us to improve our quality of work in order to create the best project in all aspects. Not forgetting, to all staffs of UiTM Cawangan Pulau Pinang especially Final Year Project committee who involves directly and indirectly in making our Final Year Project valuable and beneficial experience for us.

Last, but not least, our special thanks to our family members and friends for their countless help, priceless support, encouragement and their valuable advices. Without all of them, we would not have been where we were standing right now.

ABSTRACT

In today's modern life, technology has become source of income for most of the people in the world. But, with such technologies, many classified data regarding company data or personal information has been created. Many classified data has been leaked to the outside world nowadays because of offices break in cases. This case has really affecting the owner of the classified data and the worst thing is it can cause major loss to the company or may harm the owner of the classified data itself. So, this project is created to overcome the problems. This project is designed using Radio-frequency identification (RFID) as the key to open the automatic door lock system. The component used in this project is the important key that makes the system more precise and secure. The system is using Arduino UNO R3 as the brain to control the process flow of each component. The servo motor open and closed the door lock when the RFID card scanned. The Liquid Crystal Display (LCD) displaying the desired words and the indicators lights up automatically for each situations. Meanwhile the button switch can open the door lock manually from the inside and the buzzer can sound when unauthorised RFID card is scanned. From the flow process, it is observed that the security of the system is improved when Radio-frequency identification (RFID) is used in the system.

CHAPTER 1

INTRODUCTION

1.1 Background Of Study

Different from previous years, our country is moving towards advancing technology to the status of developing country by 2020. As the technology are upgraded and improved, people's life becomes easier than before. From communication to transportation our country has changed so much year by year. Yes, without technology people's life is harder and difficult. So if technology keep improves in many ways to make it easier to use, people will tend to use it more often.

In today's modern life, technology has become source of income for most of the people in the world. But, with such technologies, many classified data regarding company data or personal information has been created. Nowadays, there are many companies that are competing to create something new in the technology world. This scenario has caused cases such as offices break-in in attempt to steal classified data from other companies. These classified data has to be well protected so it won't be leaked to the outside world. So, they need an efficient security system to protect their classified data from being stolen. The example of efficient security system is authorise security door. Authorise security door can prevent strangers from entering the office and protecting the classified data from being stolen.

There are many good security systems that have been sold nowadays with a different sizes, brand and structure. But not all of them can actually prevent someone from entering the office. This project proposes of better solution which is using RFID for authorised door security system.