

# ARDUINO AUTOMATIC DOOR OPENING SYSTEM

MUHAMMAD AFIQ BIN ISMAIL  
MUHAMMAD FAUZI BIN MARZUKHI

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

FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI 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 projects supervisor, Mr Sufian Mohamad who contributed in stimulating suggestions and encouragement, helped us to coordinate our project especially in writing this report.

Furthermore we would like to acknowledge with much appreciation the crucial role of the staff of UiTM Pasir Gudang, who gave the permission to use all required equipment and the necessary materials to complete the task “Automatic Door Opening System”. A special thanks goes to our friends who help us to assemble the parts and gave suggestion about the task “Automatic Door Opening System”. We have to appreciate the guidance 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.

## ABSTRACT

This is an Electronics Project on Automatic Door Opening System Using IR Sensors which is used to automate door opening. This project will contribute a lot of pleasure in our daily life. For those disability and older people, they will appreciate the automatic door systems. This project also conserve energy from heating and air conditioning that would have been required otherwise. Thus, it saving-up on electricity costs.

This project consist the infrared that can detect human motion to go through the door. The infrared signal will send to the micro controller. Then the micro controller send the signal to the stepper motor as in which the door is opened. After a few seconds, the door will close automatically if no more obstacle to be detected by the infrared sensor. This automatic door system is powered by using electricity to open and close the door.

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## **CHAPTER 1**

### **INTRODUCTION**

This chapter explains the detail about the project introduction, objective project, scope of work, and problem statement also methodology about this project.

#### **1.1 INTRODUCTION**

This is a good Electronics Project report on Automatic Door Opening System Using IR Sensors which is used to automate door opening. Some of the main components required for this project are Power supply, Micro controller, Stepper Motor & IR sensors. In this system whenever the infrared sensor senses the obstacle and the signal is sent to the micro controller. Then the micro controller sent the signal to the stepper motor as in which the door is opened.