FACULTY OF ELECTRICAL ENGINEERING

UNIVERSITI TKENOLOGI MARA

PULAU PINANG

FINAL REPORT:

AUTOMATIC DOORBELL

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This report is submitted to the Faculty of Electrical Engineering,

Universiti Teknologi Mara (UiTM)

In partial fulfillment of the requirement for the award of Diploma in Electrical Engineering

This report is approved by:

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Supervisor's name

Anis Diyana Rosli

Date: 05/10/2016

ABSTRACT

The title of this project is Automatic Doorbell. Doorbell has evolved through the century. The old people used pipe to call people inside a house. Nowadays, community used electrical doorbell which need to push button to ringing the bell. Even though, electrical doorbell is good, it still can be improvise to a better system. Guests that come to the house, does not know whether the owner is available or not. Even the owner may not hear the bell ringing. This project used PIR sensor to detect guest so the guest does not need to push button. Once the PIR sensor detect guest, it will signalled the microcontroller, PIC 18F4550 to triggering the outputs (buzzer, LED, LCD) to start functioning. If the bell is not enough to alert the owner, the LED will be place suitably inside each rooms. The LCD will display first set of message "Owner Available" if the condition is run and another set of message "Sorry, Owner Unavailable" if the second condition is run. The outputs component (LED, buzzer, LCD) manage to give result as desired.

ACKNOWLEDGEMENTS

Assalamualaikum, first of all, we would like to offer our most sincere gratitude to ALLAH S.W.T as He has gave us good health and open our mind to think outside the box in completing this project. During the completion of this project, ALLAH has gave us His protection as there are no accidents or unwanted things happen to us.

Next, we would like to express our thanks to our supervisor, Miss Anis Diyana Rosli for her genuine help and support during doing this project. She has help us in many ways to complete this project on time especially in completing the project report.

Besides that, we also want to extend our gratitude to each other for the support and help in making this project. Even though there are times we argue, it is for the benefits of this project. To all of our friends and colleagues who have help in making this project also we want to express our thanks. Other that our supervisor, they are the one who have help us in understand the operation of the component used in this project.

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