MARA UNIVERSITY OF TECHNOLOGY
PULAU PINANG

REPORT OF PROJECT 2

KEU 380

TITLE:

DOORBELL ACTIVATED PORCH LIGHT

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ACKNOWLEDGEMENT

Alhamdulillah. Big of thanks to *ALLAH s.w.t the GOD, ONE and ONLY and THE ALMIGHTY* for his permissionfor finishing this long report for subject KEU 380 Project 2

We would like to thank to our supervisor, Cik Taniza Bt. Tajuddin because of her co-operation in teaching and advise us on how to complete our project 1 and this long report. We never forget her good services.

Also thanks to Puan Nooritawati Bt. Md Tahir, Head of Electrical Engineering Department because of her help and guide to finish this project. End of all, We are very appreciate with her for good advice and services.

Again, big thanks to ALLAH s.w.t. and thank you very much to all.

Wassalaam

ABSTRACT

Doorbell Activated Porch Light is important because it can help to see callers who ring our doorbell at night. The idea is that when the doorbell is pressed during the day, the bell rings as the normal but at night time, a nearby outside lamp will illuminate for a few minutes so we can identify who's outside.

The door bell activated Porch light which is describe in this project is small, light and compact. It is operated by a doorbell switched and is small enough to place or hide anywhere. To complete this circuit, main components

IC1 741 (op-amp), IC2 NE555(timer), light dependent resistor, relay and NPN transistor are needed.

When the switch is turned-on at the day, the buzzer will operate as normal and the lamp will not operate. Otherwise, the light will turn on when the switch is turned-on at night so we can see the callers.

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1.0 INTRODUCTION

Doorbell -Activated Porch Light.

Doorbell -activated porch light is a circuit which enables our lamp to illiminate with the press of a doorbell push switch. It works at night time only and will power the lamp for a few minutes through a timer circuit. The simple design is readily adaptable for other applications or configurations.

CONDITION OF CIRCUIT FUNCTION

DAY TIME	NIGHT TIME
BUZZER ON	BUZZER ON
LIGHT OFF	LIGHT ON