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FINAL REPORT OF DIPLOMA PROJECT

FACULTY OF ELECTRICAL ENGINEERING



DOOR KNOB ALARM WITH  
REMOTE CONTROL

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AHMAD UBAIDILLAH SHEIKH SALLEH

## 1.0 ACKNOWLEDGEMENT

In the name of Allah S.W.T at the most gracious and merciful. Alhamdulillah the lord has gave us the power and strength and also the chance to be here on earth, living, breathing and the chance to complete this project. With joyous feeling, we are proudly manage to complete, DOOR KNOB ALARM WITH REMOTE CONTROL report on time without any rushing and the feeling that were unable to finished it on time. Thank you Allah s.w.t.

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interesting and a valuable experience. They have all been a constant source of strength and inspiration to us.

## 2.0 ABSTRACT

Our project consists of three-block circuit. A transmitter of an infrared block circuit, a receiver of an infrared block circuit, and an alarm block circuit. Each one of it has its own power supply. The infrared transmitter uses 9V battery, and the receiver uses 12V from the adapter, where else the alarm circuit uses 9V battery.

The control unit was originally designed to turn on and off a device and both of us decided to make it as an alarm with the remote control of the infrared device. We took 2 project design and combine it to be one, making it much more fun and useful. First, the infrared device is activated hence switching the alarm to turn on. The switching process took place at the relay at the receiver of the infrared project.

This project is then placed at the doorknob, waiting for the burglar to trigger it on. Whenever a person touches the doorknob, the siren will sound immediately. There will be no electric shock when a person touches the doorknob because the alarm system uses the touch sensor to make it run. The setting of trimmer pot must be calibrated first to set the sensitivity of this doorknob alarm. The more sensitive the trimmer pot, a blow of a wind will activate the siren.

This project is market oriented because it is simple, economical and useful in all kind of situations. The complete ones should cost you about RM60.00.

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