FACULTY OF ELECTRICAL ENGINEERING UNIVERSITI TEKNOLOGI MARA TERENGGANU

FINAL REPORT OF FINAL YEAR PROJECT

SHUTTER GUARD

MARCH 2013

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" I declare that this report entitled "SHUTTER GUARD" is the result of my own group research expect as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree."

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ACKNOWLEGEMENT

Bissmillahirrahmannirahim,

Alhamdulillah, thanks to Allah SWT for blessing us in finishing our proposal with success in achieving our objective to complete this project. Our Final Year Project which is titled Shutter Guard. This final year project report was prepared for Faculty of Electrical Engineering, University Technology Mara Terengganu (UiTM), basically for student in final year to complete the undergraduate program that leads to the diploma of Electrical Engineering Electronic.

Firstly, we would like to express my deepest thanks to, Madam Norizan Binti Ahmed, a lecturer of Faculty of Electrical Engineering UiTM and also assign, as our supervisor who had guided be a lot of task during two semesters. We also want to thanks the lecturers and staffs of Faculty of Engineering UiTM for their cooperation during the completion of the final year project that had given valuable information, suggestions and guidance in the compilation and preparation this final year project report.

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ABSTRACT

Our main purpose of this project is to develop an alarm to help shop owner to protect their shops against burglar. It is named shutter guard. This sensitive vibration sensor is exclusively made for shops to protect against burglary. It will detect any mechanical or acoustic vibration in its vicinity when somebody tries to break the shutter and immediately switch on a lamp and sound a warning alarm.

Our project is design base from security alarm which is to protect the shop. It is designed to help people who left their shop alone for a few hour or days. It will also inform the neighbours or someone who is near the shop that the shop is entered by someone unknown by switching on the lamp and siren that we put on the circuit. The shop lamp and siren will turn on if someone is entered the shop, hence it will attract people nearby to take a look or notify that something has happen to the shop. This shutter guard is to make sure the shop is in protection when there is no one in it.

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