

## SMART SAFETY LIGHT

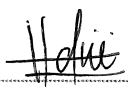
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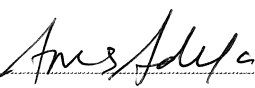
A project report submitted in partial fulfillment of the requirements for the award of  
the degree of Diploma of Electrical Engineering (Electronics / Telecommunications /  
Instrumentations / Computer)


Faculty of Electrical Engineering  
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"I declare that this report entitled "SMART SAFETY LIGHT" is the result of my own group research except 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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## ACKNOWLEDGEMENT

In the name ALLAH S.W.T Most gracious and Most merciful.

First of all, we would left very grateful because we successfully completed this project until this stage. We would like to say big thanks to those people who involved in helping us to complete this project. Special thanks to EEE368's coordinator, Madam SitiAishahbintiCheKar for giving us a lot of chance to complete this project at this stage successfully even during did this project there were many obstacles we have to face. This proposal will not doing great without the help of our supervisor Mr.Zairi Ismael bin Rizman, who is the main lead to our group and giving us lot of advice and knowledge on how to do the project correctly and smoothly.

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## **ABSTRACT**

Smart Safety Light is the title of the project. Due to accidents at the junction therefore blinking hazard light came as idea. Basically it will display 'STOP' when motion detector at the left or right side of the main road detects any movement. The project uses orange LEDs because of its high brightness which suits the aim to be caution to drivers. Infrared sensor (PIR) is used in order to detect motion. The project takes an inspiration from the original system which is traffic light and some modifications have been made such as displaying 'STOP' instead of regular traffic light and will only be displayed when motion is detected. The system is very effective because it does not need high power consumption or required monitoring of worker except when the maintenance work which is few times a year. The project uses batteries as a main power supply which is in 5-12V range.

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