

FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITI TEKNOLOGI MARA (UiTM) TERENGGANU

FINAL REPORT OF DIPLOMA PROJECT


REPELLING MOSQUITO

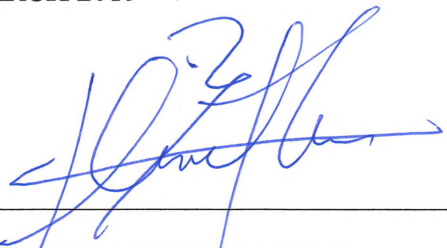
MARCH 2015


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“I declare that this report entitled “Repelling Mosquito” is the result of my own group research expect as cited in the references. This report has not been accepted for any degree and is not concurrently submitted in candidate of any other degree.”

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ACKNOWLEDGEMENT

Alhamdulillah, thanks to Allah with his blessing we are able to complete this final year project. We had gone through many obstacles and frustration as well as joy along we are doing this project. With Allah always by our side, we have finished this project without any harmful and successful to achieve our objective.

Very special thanks to our supervisor, Cik Rosmawati that have been helping and guide us from wrong to the right path. In order to make this project came true Cik Rosmawati always gives her commitment and full of support to us. Although, we also ask her anything if we have any problems regarding this project, she always gives her hand without any problems. We also wanted to give a special thanks to our engineer assistant which have guided as along the progress of final year project for this semester.

Last but not least, we would like to dedicate our thanks to our beloved parents and all of our family that also contributed to the success of this project. They give us moral support as well as their money to help us to accomplish this project. We also would like to say very-very thank you to our group members that had given full of commitment and dedication to this project. All their effort is good enough to realize this project.

ABSTRACT

This project represents as the one method to decreasing the number of mosquito. This device is called as Repelling Mosquito. The repelling Mosquito is using air pump to produce air bubble which will create a ripple. The device is supported with panel solar which is the main source of the device. However, the device needs a backup source which is internal battery. The battery inside the device is active during the night as the solar panel is useless during night. This circuit also has been improvising with another circuit which is called as Running Light. This running light is functioning as indicator light which show the user that the device is active or not. Running Light is using 4 IC which is IC 555, IC 7400 NAND Gate, 1-to10 Decoder 7493 IC and 1-to16 Decoder 7442 IC. The running light will light in sequence according to the IC 1-to-16 Decoder. When the switch is on, the solar panel will absorb the solar flare and convert into electrical energy and this energy will split into 2 works. First it will go to the main circuit which is repelling circuit, and it will activate the air pump to produce the ripple. And the second one will go to the running light circuit. This process will go on until the main switch is turn off.

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