UNIVERSITI TEKNOLOGI MARA

CLOSED LOOP ALARM SYSTEM DEVELOPMENT USING ARDUINO AND ANDROID

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Thesis submitted in fulfilment of the requirements
for the degree of
Bachelor of Engineering (Hons) Electrical Engineering

Faculty of Electrical Engineering

JULY 2017

ACKNOWLEDGEMENT

Alhamdulillah and thanks to Allah S.W.T for this opportunity to finish my final year project and complete my thesis writing .I would like to express my deepest sense of gratitude to Puan Zuriati Janin, my esteemed supervisor. My thanks to her for her invaluable supervision, warm encouragement, thoughtful guidance, insightful decision, and critical comments throughout the project. I could not have imagined having a better supervisor and mentor for my Bachelor Degree project.

I am indebted to all my fellow colleagues for their help and support to finish this project. Last but not the least, my parents and family, I thank them all for their utmost moral support, love and care in all the aspects of my life.

May Allah bless all of you.

ABSTRACT

This paper presents the design of Closed Loop Alarm System Development Using Arduino and Android with low cost and wireless remote control. General idea of Alarm System shows the quality of human being at home. Security system nowadays become a need for houses or commercial premises and available with many modern features. This Bluetooth-triggered alarm security system comes with intelligent alarming. The system only can be accessed and configured by owner using Bluetooth communication via mobile phone to turn it on or off. In this project, PIR sensor of the system will continuously monitor movement or present of human in the building. The Bluetooth module will sent intruder alert message as microprocessor (Aduino) receive signal from PIR sensor. The Arduino is programmed to wait approximately seven minute before activated the siren.

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CHAPTER 1

INRODUCTION

1.1 BACKGROUND OF STUDY

Security is a most essential factor today. Innovation creates step by step on the planet. The wrongdoing group additionally enhances their innovation to play out their operation. So innovation of security ought to be present day with time to ensure the wrongdoing works. We choose to make a security extend as our venture. In this venture we have utilized laser light to cover an expansive range. We know laser light experiences long separation without scrambling impact. It's additionally unmistakable just at source and episode point, generally undetectable. These two properties help us to develop a cutting edge security framework, which may name as "laser security". At the point when any individual or question hybrid the laser line the security caution will ringing and furthermore the concentration light will "on" to center the passageway of unapproved individual. We can make a security limit of single laser light by utilizing mirror at each corner for reflection. Siren is a gadget that produces noisy clamor. They are the methods correspondence. Sirens can be found in crisis vehicles, for example, squad cars, ambulances and fire motors. For the most part, sirens are utilized as sign or cautioning. There are distinctive circuits to deliver diverse sirens. Here in this venture a shouting siren lights circuit is displayed. Shouting siren lights are those which produces siren relying upon the light power falling on the circuit. We can likewise call it as Laser Based Security alert as it is a