

GSM RCCB BACKUP POWER FAULT CONTROL


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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)


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APRIL 2013

“I declare that this report entitled “GSM RCCB BACKUP POWER FAULT CONTROL” 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 Siti Aishah binti Che Kar 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 Miss Nurbaiti binti Wahid, 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.

Besides that, we also want to thanks to all lecturer and staff from faculty of Electrical Engineering for their cooperation, encouragement and giving us a lot of important information during prepare for the project completing process. They also help with giving us great suggestions and overcome a problem mainly seeking for some of information regarding to this project.

Another special thanks to our friends who is willing to help us during the process to finish this project and their support to us. By all there people's help, we finally have completed our project successfully. By involving ourselves in this project, we could know how to value of cooperation between us in a group, toleration between us and patient in order to complete this project. Lastly, we would like to say thank you for those people that involved in completing this project.

ABSTRACT

The GSM RCCB Backup Power Fault Control Project is designed for the purpose of controlling the home appliances power when the electricity supply trips out. During the earth fault such as lightning, the RCCB will trip and turn OFF automatically for the safety purposed. However, this condition will cause the power failure and therefore the home appliance cannot be function. This project can help homeowners to activate RCCB in their house automatically by using mobile phone although from the long distance without having to return home and turn ON RCCB manually. It also can inform the homeowners about the electricity supply trips out by sending the SMS to mobile phone. The objective of this project are to provide the backup electricity that cause by power fault by switching On another RCCB using short messaging service (SMS) and to apply communication system for RCCB backup power fault control using mobile phone. The GSM RCCB Backup Power Control operation starts when the RCCB is trip cause by earth fault. The SMS will be sent to the user through mobile phones which has set in the system to report the tripping. User need to reply the SMS by using a certain command to turn ON another backup RCCB automatically. This project used PIC18F4520 to send the data of the tripping report to the GSM and activated the RCCB.

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