

**PROTOTYPE OF CONTROLLING HOME SWITCH FOR SMALL
GROUP CUSTOMER BY MEANS MICROCONTROLLER WITH
WIFI MEDIA**

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ABSTRACT

The electricity energy demand has always been increasing every year due to the economic growing and social welfare rising. These condition can be detected by the following indicators such as :

- 1. Advanced development of industrial and business.*
- 2. Growth the population will lead to increasing electricity energy consumption.*
- 3. Growth the electrical equipment*

But the increase is not accompanied by the completion of arrears by the problem of small group customer. Therefore, this final project has been designed the equipment for field officers work easier needed.

In this final project, has designed a prototype controlling switch for small group customers and it can be remote through a Wifi from distance places. To disconnect and reconnect customers electricity is done by clicking the ON or OFF button on the website that has been created. The command will be received by the Wifi that integrated with the microcontroller, then processed to be a command ON or OFF that will be forwarded to a relay driver that serves to disconnect or connect the electricity energy. Data transmission depends on the signal strength of the Wifi being used as well as the state of the environment.

The results of this final project are expected to be used by the PLN for sub-areas of termination and connection of electricity in controlling the use of electricity energy by small group customers.

Keywords : *Prototype, Microcontroler, Wifi, Website*



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