

Skripsi  
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***AUTOMATIC CONTROL SYSTEM AND MONITORING OF IOT  
(INTERNET OF THINGS) HOUSEHOLD ELECTRIC EQUIPMENT  
CONSUMPTION***

**NPM : 1521026  
FAIRUZZABADI**

***ABSTRACT***

*The control and monitoring system is currently one of the most developed systems, many of the innovations of this system are constantly evolving to help facilitate human work. One of them is a control system and monitoring of IoT-based electrical equipment (Internet of Things).*

*The concept of an IoT (Internet of Things) electrical equipment control and monitoring system is to expand the benefits of continuously connected internet connectivity, where this system can connect various equipment around us and perform various functions on the equipment. This study aims to design a system that can automatically control and monitor consumption of IoT-based household electrical appliances (Internet of Things).*

*With this system, it is expected to be able to control and monitor the current consumption of electrical equipment at home using installed internet connectivity. This system can measure the consumption of electric current using the SCT-013 current sensor and display the measurement results on the ThingsPeak application. To perform automatic control of electrical equipment, relay drivers are used as circuit breakers to the electrical equipment at home.*

*From the tests on this system, it was found that this system can work and can be applied to electrical equipment at home. Further system development is needed so that control and monitoring functions are more effective and efficient..*

***Keywords:*** *IoT (internet of things), control and monitoring system, electric current monitoring, internet connectivity.*