

## **ABSTRACT**

Technological development is fast, especially for home automation technology or commonly called smart home. Many technologies of home automation including smart home that provides convenience, comfort and safety for consumers. Producers are required to make product innovations that can provide facilities for consumers.

In this Thesis, design of a device that is able to facilitate consumers in monitoring, turning on and turning off a power plug, with a smartphone based on the Android operating system. So customers can access the power plug to turn off and turn on and also can monitoring electronic devices connected to the power plug and it can remote with an android smartphone. Arduino functions as a sub-system to connects customer smartphones to the smart power socket.

In this design produced Smart Power Socket it can be as a monitor and controlled power plug and also can be connected to an android smartphone. The level of accuracy of measurement of Smart Power Socket expected is 95%.

Keywords : Smart Home , Smartphone, Android, Smart Power Socket, Arduino.