

## ABSTRACT

Recent technology of the world has evolved rapidly by the advance of knowledge in various fields. This does not rule out the possibility someone will find something new in the technology world. One of the technological developments is in the advanced and automated electronic power tools in daily lives. The purpose of the advanced electronic equipment is to be able to automatically generate a rapid innovation and practical in its use. Someone often forgets to turn off electrical devices when leaving the house / traveling outside that will add the burden of household electricity. Because of its function which is very important in daily life, the consumption of electric energy becomes very large. For the case of the usage of electronic equipment in rooms that are only controlled by the manual switch, the setting of the electrical energy consumption was still manually. That is, the efficiency of electrical energy consumption for the lights only depends on the person who controls the switch is on. So that case can lead people to neglect the control switch, resulting in the waste of energy use in electronic equipment.

The purpose of this final project is to create a device that can be used to control household electric devices to be turned on / off automatically and can be controlled at a distance by using the android mobile application on the remote via bluetooth. The selected device is a mobile phone that has Android operating system which is now growing rapidly and android application that is created is the development of running text applications that already exists. Single chip ATmega 8 is used as a controller to turn off and turn on household electrical devices. BluetoothBee as a receiver module on the microcontroller.

This tool can giving easiness to the user for turned off and turned on home appliance at *Electrical Remote* via android mobile with Bluetooth connection. This Bluetooth feature also available to many android mobile. So that can operated the application.

Keywords: electric devices, control, microcontroller, Bluetooth, Android, mobile