

## **ABSTRACT**

*A very important need for humans today is electricity. The problem that often occurs when it comes to electricity is the cost of electricity bills. Manufacturers in the field of technology are required to make a product that can provide facilities to help customers about electricity costs. At present there are manufacturers who produce Remote Outlet Switches, but at an expensive price and besides that the products used use a wi-fi connection. But not everyone has a WiFi connection at home, because far from home or the wi-fi rental costs are quite expensive every month.*

*This Final Project provides a low cost and flexible solution for controlling home appliances using the Remote Outlet Switch device. Remote Outlet Switch is a radio that can be accessed via radio frequency. Users can connect the device to the Remote Outlet Switch to enable / enable power, without using a Wi-Fi connection. There is one way to access the Remote Outlet Switch, which is connecting it to the same radio frequency. Users can use it as a switch on or off some distance. Remote Outlet This switch places data on Radio Frequency Shift Keying (FSK).*

*Remote Control Switch that functions as a controller and is obtained at an affordable price in terms of initial capital and operations. With the results of the tests obtained, this device update reaches 440 meters with LOS (Line of Sight) and up to 61 meters with non-LOS conditions.*

*Keywords: Remote Outlet Switch, FSK, Radio Frequency, LOS*