**ANDROID SMART HOME**

**By**

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**Introduction**

As the world gets more and more technologically advanced, the process of home automation gain more ground, initially home appliances like TV, Video player, DVD player and are been controlled wireless through infrared. But infrared based remote controlling of home appliance has a lot of limitation. Like LOS (line of sight), That is; the controller and controlled appliance must see each other, limited range and it can only Control one appliance. Then comes the PC (personal Computer) base home appliances control. This can control multiple devices or appliances but it is too bulkier, cost of construct it is too much and it is not even mobile.

Now with age of smart phones, especially the android phones, which can perform most of the action that PC can perform, even some time beyond. So using android smart phone to control home appliance either through GSM network or through Bluetooth wireless network is very great idea. It solves high cost, bulkiness and mobility problem of PC while at the same it can control multiple appliances.

With the aid of android smart phone, home appliances like TV, Radio, light points, Air-condition, Fan etc can be controlled easily. The worries of ‘did I switched off my appliances while rush out of home’ is totally eliminated. This will in- turn reduces the incident of fire outbreak. This project is a combination of Android mobile technology and embedded system. Android application is installed on android mobile phone through which various home appliances are being controlled. User can send commands using the application and wirelessly controlling the appliances via Bluetooth technology or switch off the main power supply through GSM network. The system contains two units, one is process unit & other is Command unit. Process unit consists of PIC microcontroller, Bluetooth module for communication, LCD for display, dimmer circuit for appliance controlling and GSM network mobile station (MS). The command unit consists of android Smart phone.