

**Title:** Android-Based Wireless Home Appliances Control System

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## **ABSTRACT**

The main focus of Android-based wireless home appliances control system is making an android phone as a tool to turn on/off home appliances. Aside from switching electrical devices the proposed project also has the capacity to decrease energy consumption by turning off appliances when not in use, it can also function as a security alarm tool by producing loud sounds when there is an uninvited entity in your household.

The proposed project uses PIC microcontroller that serves as the brain of the system, Bluetooth modem to establish Bluetooth connection, PIR sensor to detect movements. This is requiring as it is essential in turning off appliances when not in used and also for security alarm.

The proposed system cannot be used to the appliance that emits too much heat like heater, oven, rice cooker etc.

For further improvement of the system the following are recommended like implement a web-based system that can control appliances through web also connecting the microcontroller and the apps using Wi-Fi. Moreover, SMS Based Home Appliances Control System it means that the user can thoroughly access the appliances without the internet or Bluetooth connection. It can be accessed using the SMS application, when the user text certain syntax the appliances will turn off/on.

**Keywords:** System Wireless Home Appliances Control System