

* Paper

filename:- mielke2016

Title:- A Home Automation based Environmental Sound Alert for People Experiencing Hearing Loss.

Abstract:- Using Mesh n/w ^{used to} send notification over Bluetooth Low Energy. E receive the notification through Smartwatch E event indicated by vibration.

• Smartwatch - wireless notification

outdoor indoor

Roles:- Source - Sender of sound eg:- doorbell

↳ N/w nodes:- Mesh n/w

↳ Sink:- Stationary Sink & mobile Sink
eg:- light eg:- smart watch or phone
fixed near doorbell

Disadvantages:-

Low energy consumption using bluetooth introduces a delay for replaying packet

Longest delay in n/w is through longest path in spanning tree

- Short range - bluetooth
coverage is small

④ Paper:-

⇒ File name:- dey 2016.pdf

Title:- Home Automation Using IOT

Abstract:- Using IOT control home appliances through internet connection.

Note:- Efficient which saves time & energy consumption by switching the appliances off when not needed.

Software design:-

PHP - to create point to point web socket & web application

Amazon cloud server - for socket connection

(*) To change status of device user require to obtain id from Google Cloud Messaging (GCM).

Implementation

Equipments - raspberry pi - controlling unit relay to control electrical appliances.

Sensors:- Temperature, humidity
PIR for motion

Software can be installed in system.

Registration is imp in the application

Main focus:- To operate or control various equipment, machinery & other electrical & electronic appliances remotely.

• References - 26 papers.

⇒ Advanced universal home Remote controller for Home automation

Abstract :-

URC to control appliances

Features

IR learning - to learn new codes

RF control - to uniquely identify appliances

wifi based control and monitoring - To open door

Scope :- direct connection to all kinds of smart phones

conclusion :- URC using RF receivers, wifi, zigbee protocol.

⇒ Internet of things base home automation system

Abstract:-

Lightning system of the house is controlled remotely by establishing a remote server using Node.js

conclusion:-

aRest is used to control relay over a network node.js script is run onto the raspberry pi to connect to the server. links are used in browser to control relay

📄 Title:- IEEE Home Automation 2016