

# RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)



## TITLE: SMART DOOR BELL

### INTRODUCTION:

Doorbells have been playing an important role in protecting the security of modern homes since they were invented. A doorbell allows visitors to announce their presence and request entry into a building as well as enables the occupant to verify the identity of the guests to help prevent home robbery or invasion at a moment's notice. Now a days the door bells not available in affordable. Hence we are focusing on developing a low cost door-bell with smart features.

### PROPOSED SYSTEM:

In this project we are come up with new smart features like sound detection and motion detection which alerts the owners by blinking led lights in required areas, with in affordable price and offers more durability and flexibility.

### Designing:

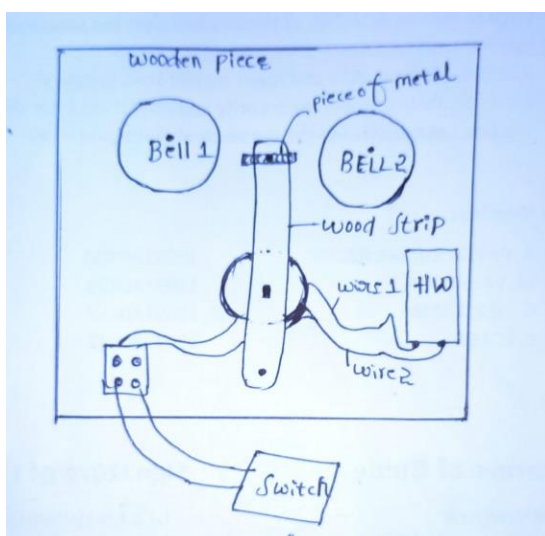


Fig a: Door bell designing

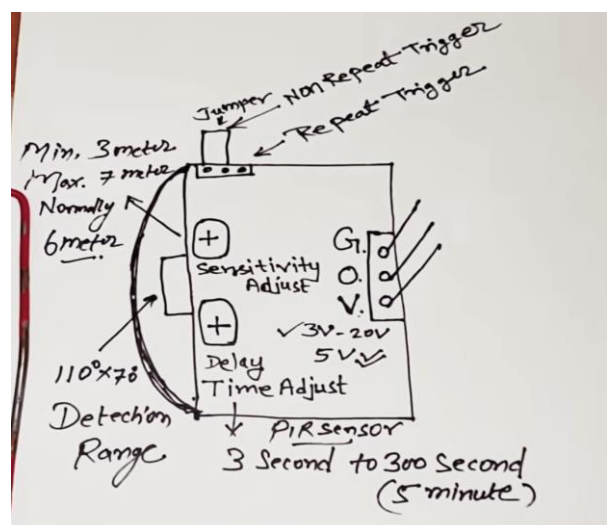


Fig b: Design for Motion Detection

**Components:**

1. PIR sensor
2. Led lights
3. DC Motor
4. 2 HW batteries
5. Switch controller
6. Transistor (NPN), Resistors
7. Metal Bells

**APPLICATIONS:**

- ❖ Home security improved with smart detection techniques.
- ❖ Used to motion detection at borders and alert the people when they are in other work.
- ❖ It affordable for middle and lower middle class people so, it can enhances their surrounding security and alert them from thefts.□

**Team Members:**

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