



**DOOR BELL CHIME**

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## ABSTRACT

Nowadays, almost every house has a doorbell to communicate each present. Many type of doorbell are available in market but rarely find for disabled peoples. For example, if the person is deaf it is difficult for them to know when the visitor is coming. Next problem is when people come at night and cannot see the button of doorbell. Doorbell chime are designed differently from the doorbell that available at the market. This doorbell chime is more inconvenient to all people and disabled people so both can have benefit. For deaf people, Light Emitting Diode (LED) was installed inside the house so that when the visitor press the doorbell button, the LED will light up and they will notice there is a visitor. The visitor also does not have a problem to find the doorbell button because the LED was installed at the doorbell. Light Depending Resistor (LDR) sensor is used to sense the light. So, it will continue flashing automatically when the sun goes below the visible region of the eyes (in evening or dark). For this doorbell chime project, the circuit was simulated using Proteus 7.10 software.

# CHAPTER 1

## INTRODUCTION

### 1.1 Background of Study

Almost in every house had a doorbell to make easy for visitor and host (the owner) to communicate each presence. Basically doorbell placed near an entry door to a building and bell will rings inside the building when a visitor presses the button. The main function of doorbell is to alert the occupants to the presence of visitor. Nowadays, there are many type of doorbell. For example wireless doorbells, wired doorbells, musical doorbells and many more.

#### 1.1.1 Literature Review

By the early 1800s, William Murdoch, a Scottish who is the first inventor are installed a doorbell in his house. The doorbell worked by using a pipe system of compressed air. It has complicated mechanical systems to allow occupants of any room to pull or ring a bell. Although the first doorbell was mechanical, that is activated by pulling a cord. There is also having a modern doorbell that is electric doorbell.

As the time go the electric doorbell are designed, specifically a bell that could be ring at a distance via an electric wire. A button on the outside next door was activated the signaling device inside the building. When the button is released it will created a two-tone sound like “ding-dong“. While the fully battery-powered wired models are also the common one.