

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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HOME SECURITY MANAGEMENT SYSTEM

A PROJECT REPORT

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ABSTRACT

Our project works on DSP chip to detect the glass or window breakage for security purpose. The concept of this project is to deploy a circuit which recognizes the sound of the glass breakage, through the sound recognition system. The sound recognition system will generate the analog signal which is converted into digital signal through analog to digital converter. Further, we have utilized a DSP controller in the circuit which will help to detect the breakage signal by putting the LED on or ringing the buzzers. The system input is the data collected by the sensors and the output is the LED glowing or ringing of the buzzers. For real time working purpose, the sound analysis is divided in 3 steps namely sound detection, sound identification and sound processing. This system is a part of home security project with the aim of detecting serious accidents.