

ABSTRACT

Security is a word that has been long found many civilizations of ago, the ancient aborigines once kept guard dogs or caged birds as a alarm mechanism to discourage any wild animals or other person that may raid their granaries of its precious food supply. Such a need for security had been scaled to immense sizes as the many Chinese Dynasties who built the Great Wall of China countless times over for the sake of safeguarding the northern entry from the Mongol Warlords and have since revolutionized to take form in our many modern security solutions today.

The aim of this project: Self-Contained Motion Alarm System is to design a simple portable security device which can be setup in any possible entryways of homes and offices where the utmost security is needed without the need for any costly maintenance and manpower while the cost of the system itself is made to a very affordable price. Prototype of this project requires embedded ICs where continuous care is not needed, long ranged infra-red sensors for entry detection, buzzers, speakers and a light mobile power supply.

The main objective is met if this project, the Self-Contained Alarm System is built to perform a proper check for human entry in the installed area(s) and provide notification of entry via buzzers or melodies / chime loud enough to alert the user of the occurrence of an event. Size of the system is also the deciding factor for this purpose but no fixed dimensions is specified except being able to be held within a person's hand.