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(57) Abstract :

This proposal is an embedded system based technique and the main objective of this proposed design is a blind man protection system to detect the obstacles using ultrasonic sensor. This blind man protection device is used to prevent against misshapeness which leads to great loss of human lives due to automobiles collisions, obstacles, and accident. This gives a disastrous result to human lives. So the main purpose of this design is to detect the other automobiles, obstacles and bystanders in order to prevent accidents. This proposal is designed for blind people to avoid obstacles. Here, an ultrasonic sensor is used to detect any obstruction and it in turn signals the microcontroller. Whenever the obstacle comes near the stick an ultrasonic sensor senses the obstacle and signals to the microcontroller and in turn the microcontroller will on the voice chip. The detector circuitry consists of two way ultrasonic integrated detection. The detector houses the transmitter as well as receiver. The detectors are positioned on the blind man stick. Once the detector recognizes any obstacle, the microcontroller signals and in turn on the sensor which is interfaced to the microcontroller.

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