

# Third Eye for the Blind using Ultrasonic Sensor

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**Abstract:** *The "Third Eye for Blind with Ultrasonic Glove" is made up of parts such as an Ultrasonic sensor, Watersensor, switch, GSM, buzzer, and vibration motors and is intended to help the blind overcome their lack of vision by employing other senses like sound and touch. It alerts the user of impending obstacles using audio and vibration cues. The frequency of the auditory and vibration messages rises as the distance between the glove and the obstruction decreases. Consequently, the technology aids in making navigating easier for those in need. The sensor module uses ultrasonic waves to calculate an object's length to estimate distance using the SONAR or RADAR principle. The fire is thus discovered by the Flame sensor. The system has a buzzer as well to produce an alarm sound. The system also includes a GPS and camera for locating and gathering photos and videos of those who are blind.*

**Keywords:** Ultrasonic sensor, Global Positioning System (GPS), visually impaired, gloves.

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