

Smart Blind Stick

Team name: Miracle workers

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Abstract

Globally, there are many people who have blind vision impairment. Visually impaired people find it difficult to self-navigate outside well-known environments.

Blindness is the lack of vision caused due to neurological and other factors resulting into visual disability.

Our smart blind stick has two features -object detection and pothole detection. We will use sensors for detecting obstacles ahead of the user like walls, upcoming traffic and detecting obstacle potholes, small objects, and pebbles. The system can be made as accessible to people as possible so that the visually impaired will feel a sense of independence as they do not need to depend on others for assistance.

List of components:

1. Arduino uno-1
2. Ultrasonic sensors-2(quantity)
3. Vibration motor-1
4. Piezoelectric buzzer-1
5. Sd card module-1
6. Led bulb indicator -1
7. 3.5 mm audio jack-1
8. Indoor/outdoor mode-1
9. Power supply-1
10. Connection wires.