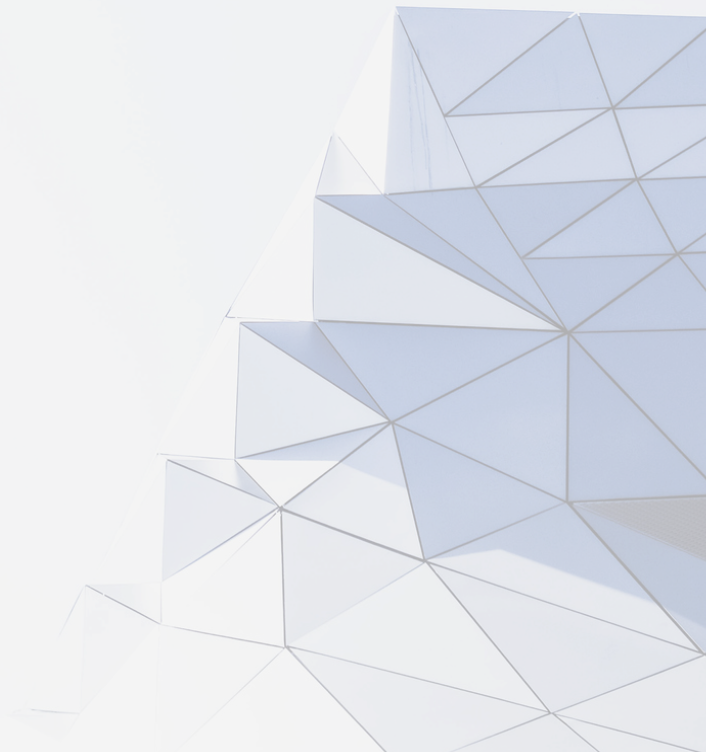


Smart Blind Stick

BS Computer Science

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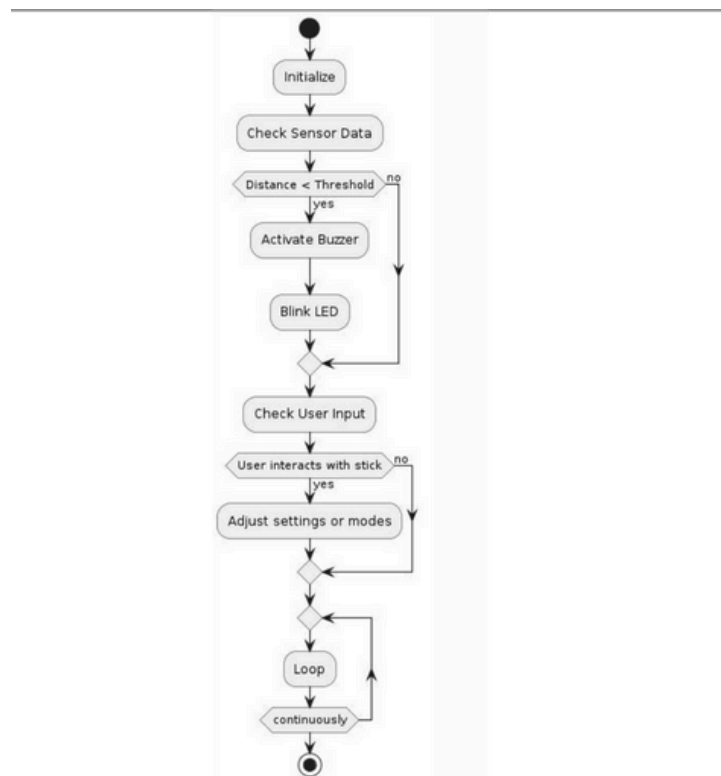


Project 1 - SMART BLIND STICK

This project describes ultrasonic blind walking stick with the use of arduino. According to WHO, 30 million people are permanently blind and 285 billion people with vision impairment. If you notice them, you can very well know that they can't walk without the help of others. One has to ask guidance to reach their destination. They have to face more struggles in their daily life. Using this blind stick, a person can walk more confidently. This stick detects the object in front of the person and gives a response to the user either by vibrating or through command. So, the person can walk without any fear. This device will be the best solution to overcome their difficulties.

This smart blind stick consists of GPS which can be used to track the location of the user. Sometimes

working process of smart blind stick



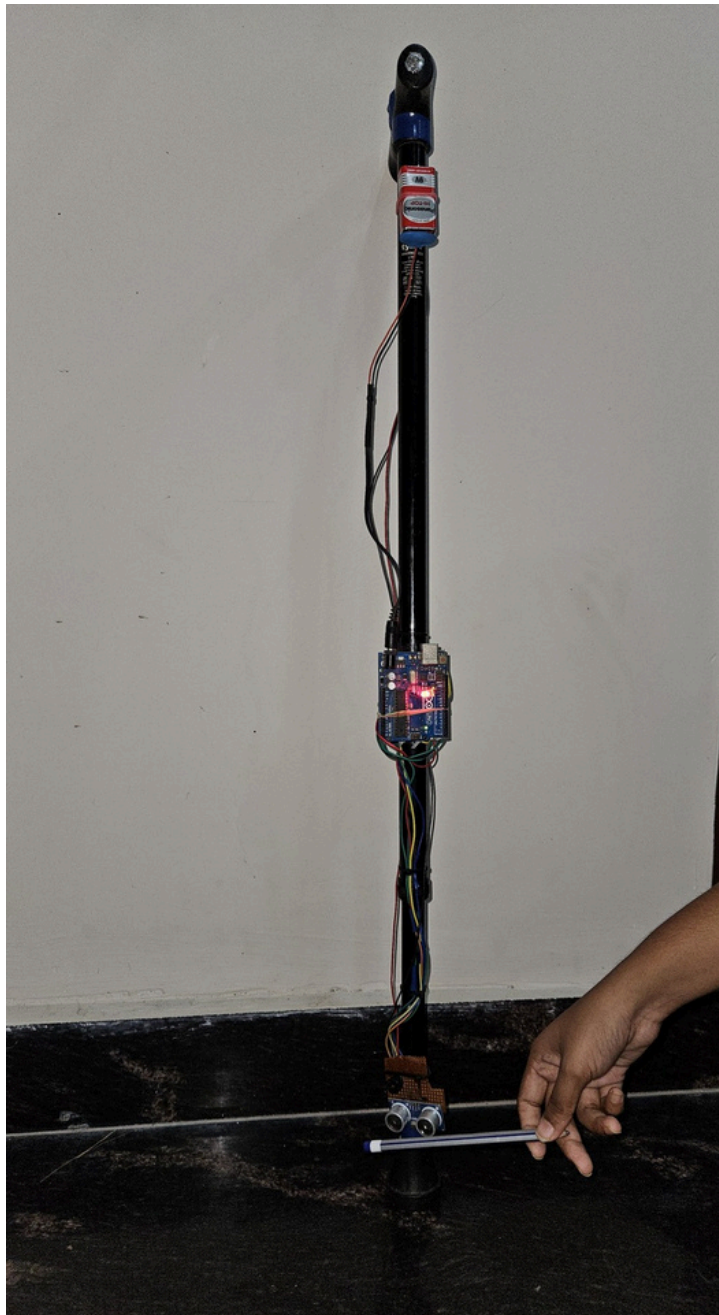


Our smart blind stick

In the below image we can see that there is obstacle so it produces sound and gets vibrated if they cannot hear they can sense through vibration. When ever there is obstacle the led glows. This smart blind stick is integrated with GPS and GSM model through SMS we can locate the live location of the user.

Components used:

- Arduino Board
- HC-SR04 Ultrasonic Sensor
- B10 Buzzer
- Jumper wires
- 9V battery
- Red LED
- 9V battery clip
- GPS and GSM Model



Programming language used:

- C++

IDE:

- Arduino Uno