



**M.KUMARASAMY**  
**COLLEGE OF ENGINEERING**

**NAAC Accredited Autonomous Institution**

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# SMART BLIND STICK

The smart stick for the blind as the name suggests is a device for the visually impaired to guide the user to respective destination and avoiding to collide with the obstacles. It uses two ultrasonic sensors HC SR 04 to detect the depth below or the obstacles in between. In this Smart stick there is a sensor which senses the obstacles or walls from 1 or half meter range then this stick vibrates & makes buzz sound. This Smart Stick warns the blind person that there is an obstacle or wall in-front of him/her. Then that person will be warned from obstacle or wall. The advantage of our project is that it can detect any obstacle with the help of ultrasonic sensor and it can provide correct location of obstacles by using the GPS system. Thus it will help blind people when they are walking outside from their home.

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