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Smart Stick for Blind People Using GPS and GSM 900 A

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Abstract: Blind sticks are an aid to help visually impaired people scan their surroundings to identify obstacles and do not require the assistance of an outside agent. The current mechanical shape of the blind stick needs to be updated to better support the theme. Therefore, this paper suggests modifying these sticks by adding sensors, micro controllers, and buzzers. This allows subjects to better navigate their environment / surroundings and improve their mobility experience. Sensors detect hurdles and obstacles from a safe distance, and the micro controller activates a buzzer to alert the user in the event of a threat. The model uses another unit to send location updates to targeted relatives and emergency relatives using GPS and GSM units.

Keywords: Arduino Nano, Sensor HCSR04, Buzzer, GPS (Neo-6m), GSM (900A), Jumper Wire, Bread Board

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