

Mini-Project – Sensor Lab (ITL603)

PROPOSAL

Smart Blind Stick

T. E. Information Technology

By

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Mini Project Proposal

(strictly one page)

Project Title	Smart Blind Stick
Project Members (Mention Leader in Bold)	Raj Jaiswal 57 Ashish Yadav 58 Allan Rodrigues 59 Jonathan Sardinha 60
Situation/Problem/Opportunity/Need	30 million people are permanently blind and 285 million are visually impaired, according to the WHO. Without the aid of others they can't walk. To reach their destination they have to ask for directions.
Problem Statement	The blind and visually impaired commonly use a walking stick, however they do not have object detection. Also at times they might misplace their walking stick and have difficulty in finding it.
Objectives	The main objective of the system is that it helps the blind people in both indoor and outdoor, care-free navigation.
Method /Approach (Steps/Modules/Proposed Work/Architectural Dia.)	He/she can also find the device easily as it can be located if lost via a transmitter in the stick and a receiver in the remote which makes a beeping sound when pressed within a specific distance
Success Criteria (Advantages / Performance Metrics)	Smart blind stick can be located via a remote. Auto detection. Locate the stick if lost using remote.
Resources (People ,Time, hardware / software resources, cost, other)	Arduino Uno R3 sensor Battery Jumper cable Bread board Ultrasonic sensor Buzzer Remote Bluetooth
Risk and Dependencies	In rain circuit can damage. Less mechanical strength.
Remark (can be continued as BE Project/Outhouse Project)	SL mini project

**References (IEEE
Format)**

- [1] Online: Available:
<https://www.researchgate.net/publication/>
Accessed on 26th January 2022.
- [2] Online: Available:
<https://acadpubl.eu/hub/2018-118-21/articles/21f/1.pdf>
Accessed on 25th January 2022.