**BLIND MAN APPARATUS**

The aim of this project is to design a blind man apparatus system using Arduino. To build the project, our required components are,

* Arduino UNO
* Ultrasonic sensor
* LDR
* Buzzer
* Bluetooth module

**Introduction:**

Ever heard of Hugh Herr? He is a famous American rock climber who has shattered the limitations of his disabilities; he is a strong believer that technology could help disabled persons to live a normal life. In one of his TED talk Herr said “Humans are not disabled. A person can never be broken. Our built environment, our technologies, is broken and disabled. We the people need not accept our limitations, but can transfer disability through technological Innovation”. These were not just words but he lived his life to them, today he uses Prosthetic legs and claims to live to normal life. So yes, technology can indeed neutralize human disability; with this in mind let us use the power of Arduino and simple sensors to build a Blind man’s stick that could perform more than just a stick for visually impaired persons.

This Smart stick will have an Ultrasonic sensor to sense distance from any obstacle, LDR to sense lighting conditions and Bluetooth module using which the blind man could remotely locate his stick with voice command. All the feedbacks will be given to the blind man through a Buzzer.

**Working:**

We use simple sensors along with Arduino for making this smart walking stick. This project could be extremely useful and helpful for visually impaired people. This smart stick will have an ultrasonic sensor to sense obstacles in front of the blind man, LDR to sense lighting conditions like weather it is day or night and a Bluetooth module to locate the stick when it is lost or stolen. All the feedbacks will be given to the blind man through a buzzer with different tones.