TEAM NAME: REUS

TEAM MEMBERS:

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PROJECT OBJECTIVE: The objective of the project is to make a stick for the blind person which contains ULTRASONIC SENSOR modules so that when the modules are interrupted they produce noise or vibrations. So that the blind man can easily know that he is going to face any interrupt.

MOTIVATION: Moving through an unknown environment becomes a real challenge when we can't rely on our own eyes. Thus a smart electronic aid becomes very important for a blind person.

BROAD VISION:The device is expected to facilitate easier movements of blind people. It could actually make the life of blind a bit easier.

DEMONSTRATION:The nearby objects are sensed by the ultrasonic sensors which are mounted on the stick with microcontroller circuit. Then this interrupt will come to microcontroller and then the controller will instruct to buzzer to blow or motors to vibrate.

SKILLS: We all are familiar with coding and a bit with circuits. We will be working on polishing our skills and learning the use microcontroller.

BASIC MATERIALS REQUIRED - GH311 ULTRASONIC SENSOR or any other ultrasonic sensor , PING sonar sensor for calculating the distance of the obstacle, Microcontroller. etc.

COST: Cost of the project is estimated to be around 2-5k. Depending upon the quality of the

equipments we use.