SYNOPSIS FOR
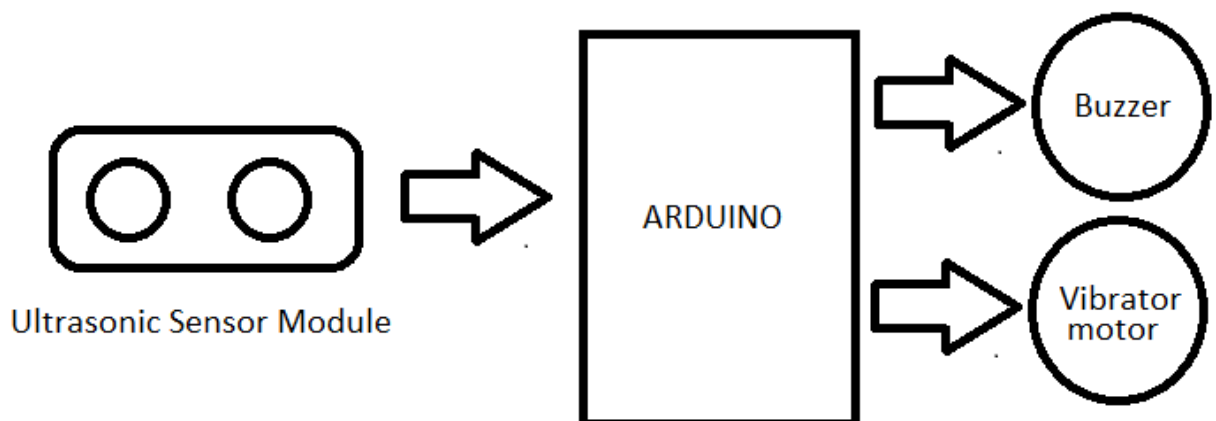# THIRD EYE FOR BLIND WITH VIBRATOR GLOVE

INTRODUCTION:

According to estimates from the World Health Organization (WHO) Prevention of Blindness and Deafness Program: About **285 million people** are visually impaired worldwide: 39 million are blind and 246 million have low vision.

To solve this problem we are going to make one of the best wearable technologies based innovative device which will detects nearby objects or obstacles and notify with buzzer.

This devices is called "*THIRD EYE FOR BLIND PERSON*"

Now a days there are so many instruments and smart devices for visually impaired peoples for navigation but most of them have certain problems for carrying and the major drawbacks is those need a lot of training to use. This technology will resolves all the problems of existing technologies. This device will help the blind to navigate without holding a stick. Simply wear it as a band or cloth and it can function very accurately and they only need a very little training to use it.

BLOCK DIAGRAM:

COMPONENT REQUIRED:

- Arduino Nano -1
- Ultrasonic Module- 1
- Buzzer – 1
- Slide Switch- 1
- DC Socket & DC Pin - 1
- Resistor – 470 Ohm
- Resistor – 68Ω- 100Ω (any one)
- LED - 1
- Printed Circuit Board - 1
- DC Battery 9V
- Female Header
- Vibrator motor

APPLICATION

- To Avoid Interference Blinds To Walk Carefully.
- It Can Be Used As Obstacle Avoidance System

SOME BENEFITS OF OUR PROJECT ARE:

- It is portable
- Economical
- Small and light
- Easy to fit with caps, shoes, hand band
- Easy understandable mechanism

CONCLUSION

Thus, this project which is built by our group is totally tells us about the architecture and model of Arduino based third eye or extra vision for blind people. A simple architecture device, efficient in use, cheap in cost, easy to carry with us, easy configurable, easy to handle electronic guidance system with proper and easy usages guidance and various effective hardware helps to provides the amazing properties so that it helps the needy blind people. So, talking about this project it has the feature to detect the distance of objects that's are major issue for blind people after detecting the object distance they also told us about the direction where object was detected like left, right, top, bottom. This all feature helps the blind person to easy walk in any direction without colliding with obstacle. With our given project instruction if it is made as accurate as we were showing in our research paper that helps the blind people to move in any direction without taking the third person help it also makes someone independent from the others and if they have some work so they do by itself. Our project is successfully removing the problem of existing navigation techniques like carry the stick with us while walking, use of another person while moving one place to another and many more issue was successfully resolved by this project. This project, if used on a wider scale and distributed to all the blind people it really makes a bigger impact to the society and the community.

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