**OBSTACLE DETECTOR USING ULTRASONIC SENSOR**

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**ABSTRACT**

Obstacle detection techniques is now the future of smart vehicles with the safety measure and for the visually impaired individuals in the unfamiliar conditions. The technical idea is to transfer and develop a local navigation system with help of several types of equipment and approaches namely sensors, Computer Vision methods, micro-controllers etc. for detecting obstacles in the path. To enable an utmost collision free mobility of the users we intend to use Ultrasonic sensors as its less expensive and easily accessible.

In this project we focuses on the uses of these sensors in distance measurement in vehicular applications and a small prototype designed using arduino, to provide a practical experience with simulation too.

**INDIVIDUAL CONTRIBUTION AND FINDINGS:**

I have searched lot of data and information regarding the obstacle detection which includes the ultrasonic sensors and found which components to use.

**INDIVIDUAL CONTRIBUTION TO PROJECT REPORT PREPARATION:**

In the report I have contributed by finding the data through various sites and videos which helped me a lot in the project.

**INDIVIDUAL CONTRIBUTION TO PROJECT PRESENTATION AND DEMONSTRATION:**

In the presentation obstacle detector using ultra sonic sensor I have described the components we used in the project .

DIGITAL SIGNATURE DIGITAL SIGNATURE

Full signature of supervisor’s Full signature of student

