A

Project Report

On

AUTO BRAKING SYSTEM FOR VEHICLES USING ULTRASONIC SENSOR

Submitted to

Department of

ELECTRONICS & COMMUNICATION ENGINEERING

By

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SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled "**AUTO BRAKING SYSTEM FOR VEHICLES USING ULTRASONIC SENSOR**" carried out by the following students of **III Year B.Tech** in **Electronics and Communication Engineering** during the academic year 2022-23.

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ABSTRACT

Drowsiness of the drivers is the main cause of accidents in the world. Due to lack of sleep and tiredness, drowsiness can occur while driving. This system alerts the user if he/she falls asleep at the wheel thereby, avoiding accidents and saving lives. This project involves measure and controls the eye blink using IR sensor. Here, we propose a method of detecting driver drowsiness using eye blink sensor. The primary purpose of the Drowsy Driver Detector is to develop a system that can reduce the number of accidents from sleep driving of vehicle. With our two monitoring steps, we can provide a more accurate detection. For the detecting stage, the eye blink sensor always monitors the eye blink moment. It continuously monitors eye blink. If the monitoring is over, the collected data will be transmitted to a microcontroller, and the microcontroller digitizes the analog data. If the warning feedback system is triggered, the microcontroller makes a decision which alert needs to be activated.

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