

A  
Project Report  
On  
**DRIVER ANTI-SLEEP ALARM**  
Submitted to  
Department of  
**ELECTRONICS & COMMUNICATION ENGINEERING**

By  
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(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 “DRIVER ANTI-SLEEP ALARM” 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

IC Engines have been advanced a lot such that its speed is becoming a major catastrophe. Advanced automatic braking system improves braking techniques in vehicles. It changes complete braking systems in an automotive and deals with the concept of Automatic Braking System giving the solution.

This project is designed with ultrasonic transmitter, ultrasonic receiver, Atmega328 microcontroller, DC gear motor, Buzzer and mechanical braking arrangement. The Ultrasonic Sensor generates (0.020-20) KHZ frequency signal. It is transmitted through ultrasonic transmitter. The ultrasonic receiver is used to receive the reflected wave present in front of the vehicle, then the reflected waves is given to the ultrasonic wave generator unit in which the incoming wave is amplified and compared with reference signals to maintain a constant ratio and Buzzer may takes place, which results in application of brakes.

The prototype has been prepared depicting the technology and tested as per the simulated conditions. In future the actual model may be developed depending on its feasibility.



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