

A Major Project report on
**WIRELESS VEHICLE OVERSPEED DETECTION AND CONTROL SYSTEM
WITH SMS ALERTS**

Submitted to
Jawaharlal Nehru Technological University, Hyderabad

In partial fulfillment of the requirement for
The award of degree of

BACHELOR OF TECHNOLOGY
In
ELECTRONICS & COMMUNICATION ENGINEERING
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2022-2023



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CERTIFICATE

This is to certify that the major project entitled **"WIRELESS VEHICLE OVERSPEED DETECTION AND CONTROL SYSTEM WITH SMS ALERTS"** submitted to JNTUH is carried out by the following students of IV B. Tech in the partial fulfillment for the award of the B. Tech degree in Electronics and Communication Engineering during the academic year 2022-2023.

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ABSTRACT

In this evolving World, people are driving very fast and accidents are occurring frequently, so we lost our valuable life by making small mistakes while driving (e.g., school zones, hills areas, highways) and collision between the vehicles. In order to avoid such kind of accidents and to alert the drivers and to control their vehicle speed in such kind of places, the highway department has placed the signboards. But sometimes it may not be possible to view that kind of signboards and there is a chance for accident. So to intimate the driver about the zones and the speed limit automatically, it is done by means of using RF technology. The main objective of this project is to design a RF based speed control system meant for vehicle's speed control and monitors the zones which can run on an embedded system. Smart Display and Control (SDC) can be custom designed to fit into a vehicle's dashboard and displays information on the vehicle. The project is composed of two separate units—zone status transmitter unit and receiver (speed display and control) unit, a ultrasonic sensor. Once the information is received from the zones and sensor, the vehicle's embedded unit automatically alerts the driver, to reduce the speed according to the zone, it waits for few seconds and otherwise vehicle's SDC unit automatically reduces the speed and the sensor detects the obstacle by measuring the distance to avoid collision between vehicles.



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