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Drowsy Driver Sleeping Device and Driver Alert System

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Abstract: Drowsiness is the main cause for major accidents which leads to the injuries, deaths and damages. To overcome this problem, we propose a system which uses various sensors. These sensors are used to detect the driver drowsy and monitor the health of the driver. The buzzer is used to alert the driver whenever the driver feels drowsy. Whenever the sensor values are not in the range of threshold value, the motor stops. In case of emergency, the GPS module determines the location and this information is sent through GSM to the particular person or in charge ward. All these sensor operations are controlled by Microcontroller. With the help of this system, the major road accidents canbe reduced by alerting the driver

Keywords: For V2V Communication, Crash Avoidance System, Intelligent, Transportation System (ITS), Vehicle Safety, Collision Warning, Cooperative Adaptive Cruise Control (CACC), Wireless Communication, Dedicated Short- Range, Communication (DSRC), Vehicle-to-Everything (V2X), Sensor Fusion, Connected Vehicles, Traffic Safety

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