

ABSTRACT

VEHICLE COLLISION DETECTION AND WARNING USING ARDUINO

As the usage of vehicles increased, the rate of accidents and the Dearth rate of people due to accidents also increased drastically. This system (project) warns the driver about the chances of accidents by voice based or screen (Graphics) based instructions.

In this system, we are using GPS (Global Positioning System) to which a SIM (Subscriber Identity Module) is interfaced. The data collected from GPS is sent through GSM (Global System for Mobile Communication) to the web server. The server will interact/warn driver through a dedicated device in the vehicle.

The SIM used here must have 3G/LTE by the service provider to send and receive data from the server. This kind of system warns driver effectively about the vehicles approaching towards and also distance between the vehicles. The main aim of this project is to reduce the number of accidents and save lives.

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