

Signs with Smart Connectivity for Better Road Safety

In present Systems the road signs and the speed limits are Static. But the road signs can be changed in some cases. We can consider some cases when there are some road diversions due to heavy traffic or due to accidents then we can change the road signs accordingly if they are digitalized. This project proposes a system which has digital sign boards on which the signs can be changed dynamically. If there is rainfall then the roads will be slippery and the speed limit would be decreased. There is a web app through which you can enter the data of the road diversions, accident prone areas and the information sign boards can be entered through web app. This data is retrieved and displayed on the sign boards accordingly.

This project proposes a IOT Based Smart Vehicle Monitoring system (SVMS). Using IOT Radio-Frequency Identification Device (RFID), GPS, GSM, WIFI, WSN Networks Eye Blink Sensor, Acceleration Sensor, Gyroscope Sensor, Impact Sensor, Cloud Computing. Basically sensors and electronics are connected to each other and transmitting data to one another over the internet. The uniqueness of our proposed project is IoT offers a unique blend of smart system which can connect identifiable devices through internet using a set of

two or more nearby vehicles. Second, is vehicle-to-infrastructure, it is a connectivity with the external infrastructure. Third, is vehicle-to-device, this includes connection with the hardware or internal/external devices. Using this project, drivers and receive information about their status (colour and when they will change), which reduces the number of accidents and improves circulation.

IDEA IMPLEMENTATION

- Preventing Wrong-way Crashes
- Better Traffic Management and Safety
- Combating Poor Visibility