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EMBEDDED WEB SERVER BASED BRIDGE MONITORING USING RASPBERRY-PI BOARD

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ABSTRACT:- 4 aug 2016, the bridge collapse incident happened at mahad, 40+ people got killed at that incident. Many other incidents happened in past years; hence just like human gives the importance to their health, there is need to give same importance to the structural health monitoring. Now a day's engineers have to rely on visual and heavy machineries to monitor the bridges. The prototype which we are going to design, is capable of accessing the data generated by field sensors and make that data available on network board devices using web technology and embedded based web server in order to monitoring fault and structural health of bridge. The system is platform independent.

Keywords— Raspberry Pi, Embedded Linux, Web Design.

TRAVOLUTION- COMPLETE VEHICLE DRIVE SAFETY AND SECURITY SYSTEM

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ABSTRACT:- According to several statistics the majority of the Car accidents are caused by high speed and disrespect of the inter-vehicles security distance. In spite of this, more than 60% of drivers do not comply with speed limits on urban roads or trunk roads. The worst situation is when a trunk road passes through a village. There, almost 80% of drivers break the speed limit. In order to give to drivers the means for controlling the speed of their cars, several constructors have developed various systems such as the speed limiter or regulator already present in some cars. In this field, research continues to give more effective systems, like speed regulator systems with GPS (Global Positioning System) which allows to adapt the car velocity to that authorized in its localization zone. In this paper we describe an Intelligent Cruise Control with GPS and Radar that combine GPS and radar systems to adapt the vehicle speed to respect the speed limitation and to avoid running up against others vehicles. The system integrates a GPS subsystem which makes it possible to locate the car and to determine authorized speed in its zone of localization. The radar subsystem detects any obstacle in front of the vehicle and gives the optimal speed to avoid the most dangerous one.

Keywords— GPS receiver, Tilt Sensor, IR Obstacle sensor, GSM Modem, Security sensor.