A SAFE DRIVING EMBEDDED SYSTEM INTEGRATED WITH CAN PROTOCOL

ABSTRACT:

Administration in India hypothesizes that there are street mishaps happening at regular intervals and the regular stake are of human blunders under which sum to 93% of all mischance. The aggregate yearly human loss because of street mishaps has crossed 1.18lakh. A dynamic shrewd demonstrative framework on the system that cautions and helps the driver in effective driving and the technical expert with finding among other accessible information is the need of great importance. This demand for an intelligent safe driving system providing safety to driver as well as passengers that assists the driver in handling a situation of sudden probability of collisions. The work proposes ARM7 controller based execution to caution around a crash and overcome it. The controller is employed with a built-in CAN protocol which plays the major role in communicating with all the devices and sensors. Ultrasonic sensor acts as an obstacle detector for front-end of the vehicle and IR sensors for change of lanes. Motor driver acts as an interface between controller and the motor. A GSM module is also employed to get information on phone via short message service. Warnings are obtained with buzzer and LCD display also.

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