70. VEHICLE ACCIDENT AVOIDANCE SYSTEM AND PROTECTION SYSTEM

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The objective of this project is to efficiently avoid the collision of vehicles by using Collision Avoidance System (CAS). In proposed method the relative speed and distance of all the vehicles around a particular vehicle is estimated using ultrasonic sensors and IR sensor and based on the results the speed of that particular vehicle is controlled to avoid early collisions. If any obstacle comes closer beyond the limit, then vehicle automatically stops. IR Sensor is used to detect the obstacle as well as root. The decision is taken according to the IR sensor detection. Besides the facility we also provide an accident detection system which detects the accidents and by using GSM we send the information to the relatives, which is most useful information to save the persons. Therefore in this paper I propose a systematic architecture to avoid the accident, and protect the person and also vehicle power saving mode by using PIR sensor.

Key words: IR and ultrasonic sensor, Vibration sensor, PIR sensor, GSM.

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