**VEHICLE ACCIDENT PREVENTION USING EYE BLINK SENSOR**

**AIM:**

The aim of the project is to design an accident prevention using eye blinking and to inform status to relevant persons through SMS

**PURPOSE:**

The purpose of the project is to avoid the occurrence of accidents that are caused due to diminished driver’s vigilance level.

**BLOCK DIAGRAM:**

**AT89S52**

**Power supply**

**GSM Module**

**Motor
(engine)**

**Eye blink sensor**

**LCD**

**Buzzer**

**Max
232**

**DESCRIPTION:**

The ever increasing numbers of traffic accidents all over the world are due to diminished driver’s vigilance level. For this reason, developing system that actively monitors the driver’s level of vigilance and alerting the driver of any insecure driving condition is essential for accident prevention. In this project we continuously monitor the condition of the driver i.e. whether driver is feeling drowsy or not. So to check whether driver is drowsy or not we are placing eye blink sensor which can be fixed in spectacles. If the eye blink sensor detects the blinking then the vehicle will be in moving condition.

If the eye blinks are not detected for a particular interval of time then it means that driver is in sleeping condition or in drowsy state then immediately car engine will be stopped with a buzzer alert and this status information will be provided to owner/police/family persons.

**GSM:**

In this project we are using GSM modem. GSM means Global System for Mobile communications. It is a hugely successful wireless technology now a day’s it has become the world's fastest growing communications technology. GSM is an open, digital cellular technology used for transmitting mobile voice and data services. The GSM operates in the 900MHz and 1.8GHz bands GSM supports data transfer speeds of up to 9.6 kbps, allowing the transmission of basic data services such as SMS.

**HARDWARE USED:**

* Microcontroller
* Power supply
* GSM
* LCD
* Eye blink sensor
* Buzzer

**SOFTWARE TOOLS:**

* Keil u-Vision
* Embedded ‘C’
* Express PCB

**RESULT:**

Hence we have designed a Accident prevention using Eye Blinking which will give very good results in avoiding accidents