**THE ACT OF PREVENT THE COLLISION BASED ON INCAUTIOUS AND SLEEP RECOGNISATION**

**ABSTRACT**

An embedded system is a special-purpose [computer](http://en.wikipedia.org/wiki/Computer) system designed to perform a dedicated function. Unlike a general-purpose computer, such as a [personal computer](http://en.wikipedia.org/wiki/Personal_computer), an embedded system performs one or a few pre-defined tasks, usually with very specific requirements. Since the system is dedicated to specific tasks, design engineers can optimize it, reducing the size and cost of the product. Embedded system comprises of both hardware and software. Embedded system is fast growing technology in various fields like industrial automation, home appliances, automobiles, aeronautics etc.

Embedded technology uses PC or Microcontroller the specified task and the programming is done using assembly language programming or embedded C. Ours being a developing country the power consumption is increasing on large scale to meet the growing need of the people. Power generation is widely based on the non-renewable sources and these sources being depleting some means have to be found for power saving.

The purpose of this is to measure the distance between from one vehicle to another vehicle and to alert the driver through Eye blink sensor from sleepiness, with the help of microcontroller. The PIR Sensor is connected through the unit of the microcontroller. The Controller is connected with the LCD unit which will display the detection of the object. If the eye blink sensor sensed automatically we can get alert through Buzzer.

**BLOCK DIAGRAM**

**MICRO**

**CONTROLLER**

**LCD**

**PIR SENSOR**

**VIBRATION SENSOR**

**BUZZER**

**HARDWARES REQUIRMENTS**

* MICROCONTROLLER
* LCD.
* VIBRATION SENSOR
* PIR SENSOR
* POWER SUPPLY
* BUZZER

**SOFTWARES REQUIREMENTS**

* MPLAB SOFTWARE.