ABSTRACT

ACCIDENT IDENTIFICATION USING RF TECHNOLOGY

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Now a day’s technology is running with time, it completely occupied the lifestyle of human beings. It is being used everywhere in our daily life to fulfil our requirements. We can not only increase the comfort of life but also increase security with good ideas by making use of advanced technology. When an individual riding his/her bike, meets with an accident, there is a chance that the individual may suffer from a serious injury or expire instantaneously and there is no one around to help him. Well this system is a solution to the problem. The system acts as an accident identification system that gathers and sends this vehicle information that met with an accident, and conveys it to the nearest control room .

This project is to identify any accident using wireless technology based on RF. When there is an accident occurred to the vehicle, and then the device in the vehicle will transmits the regarding information. The receiver will receive the information and switches an alarm, also shows visual display through LCD display along with the vehicle location.

The user vehicle is fixed with an RF transmitter circuit that has a vibration sensor along with microcontroller, RF encoder and also fitted with an RF transmitter. Each and every control room must have an RF receiver fitted to receive the transmission. Whenever a user vehicle meets with any accident, the vibration sensor detects and gives its output. This output is then detected by the microcontroller. Now the microcontroller sends this change detection signal to an RF transmitter. The RF transmitter now intern begins transmitting this accident data. The nearest RF transmitter reads the signal and then shows it on an LCD screen. The person monitoring the LCD screen may react to it, reach the accident location and help the needful. RF receivers can also be placed at the street lights. Whenever the accident occurred then nearest street light will receives the information and sends the information along with street light number.

The project aims in designing a system which is capable of detecting the accident and alerting through display and Buzzer alarm system using wireless RF Technology. With the help of this project we can minimize deaths and the severe conditions due to accidents.