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<http://www.projectsof8051.com/vehicle-accident-detection-with-gps-and-gsm-modem/>

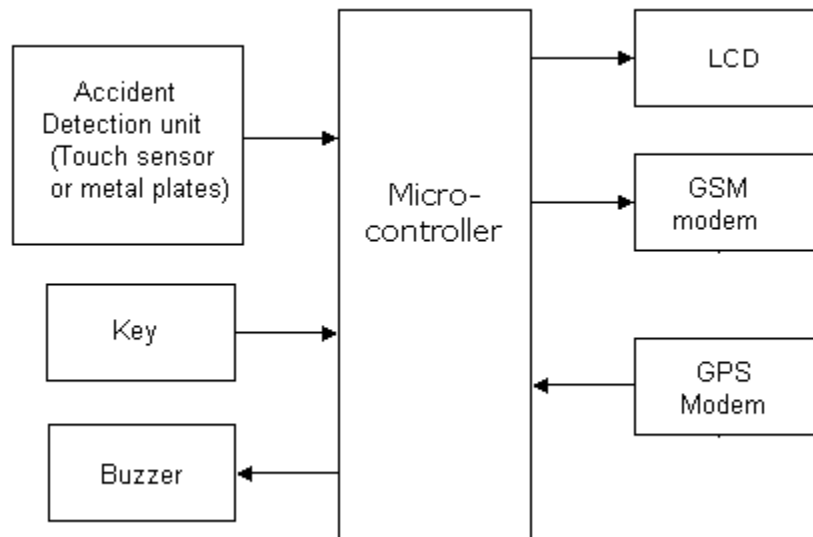
Code	Project Title
1830	Vehicle Detection with GPS and GSM modem

# Synopsis for Vehicle Detection with GPS and GSM modem

## 1. Introduction

Now-a-days lots of accidents happen on highways due to increase in traffic and also due to rash driving of the drivers. And in many situations the family members or the ambulance and police authority is not informed in time. This result in delaying the help reached to the person suffered due to accident. Our project "Vehicle Detection with GPS and GSM modem" is designed to avoid such situations.

## 2. Block Diagram



## 3. Description

In this project we are going to use an accident detection unit which will be fitted inside the front and rear bonnet of the car. This accident detection unit consists of two metallic plates which are kept at little distance apart from each other. In case of accident, if the car is hit to some other vehicle or an object then due to the impact the two metal plates will come in contact with each other. Due to this a signal will be sent to microcontroller.

Microcontroller is the central processing unit CPU of our project. Once microcontroller gets signal from metal plates, then it will immediately turn on the buzzer.

A key will be provided for the driver. If the accident is very normal, or driver has hit the wall in some situations like parking then driver will press the key. This will inform the microcontroller that this is a very normal accident. But if driver is not in situation to press the switch or if the accident is really a major accident then driver will not press the key.

Then microcontroller will get the coordinates from the GPS modem then it will send this information to the GSM modem, GSM modem is used to send this information via SMS. SMS will be sent to the family member of the driver, so that they can take immediate action to help the persons suffering due to this accident.

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