Abstract

With the growing population the use of vehicles has become superfluous and this has led to increase in the number of accidents at an alarming rate. This project aims at detecting the accident and reporting the location of accident to the previously coded numbers. This helps in a speedy service from the ambulance and the concerned person. The GPS and GSM technology is used to locate the position of the vehicle in the form of latitude and longitude coordinates and sends it through SMS.

Piezoelectric and alcohol sensors when triggered, help in detecting the accident and sending the signal to the micro controller of the system. This further helps in sending the message to the concerned person. This system can help companies in the rental vehicle business to keep a track of the vehicular activity by sending message at regular intervals to the authorized numbers.

References
5. The 8051 Microcontroller and Embedded Systems” by Muhammad Ali Mazidi and Janice Gillispie Mazidi, Pearson Education.
6. “8051 Microcontroller Architecture, programming and application” by KENNETH JAYALA.
7. ATMELE 89S52 Data sheets.

**Index Terms**

Computer Science

Circuits and Systems

**Keywords**

GPS, GSM, Arduino Uno, alcohol and piezoelectric sensors.