

Smart Accident Notification and Tracker (SANAT)

Absract

Road accident is a major concern in automobile powered world and road safety. Most of the accidents are not attended or treated quickly due to the lack of best emergency facilities and late information of the accident to rescue team especially in rural area. This paper aims to design Smart Accident Notification and Tracker (SANAT) by using Arduino Uno as a microcontroller with Global Positioning System (GPS) via Global System for Mobile communication (GSM) technology. This system detects an accident immediately after an impact sense by shock sensor and notified the emergency contact list as well as the rescue team with the precise location of the accident covering geographical coordinates in which a vehicle accident had occurred obtain from the GPS module after the shock sensor receive an impact from the accident. Signal from the sensor would be send to microcontroller and compares with the threshold set value and immediately sends an alert message using GSM modem to the first aid centre as a receiver. The receiver would receive the location in a link that could directly view the location and start navigate through Google Maps. This system would provide an optimum alert that could help reducing the loss of life due to vehicle accident.