GE19612-PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP

ACCIDENT ALERT SYSTEM USING ARDUINO UNO

ABSTRACT:

Significant numbers of accidents occurred last year, contributing to a concerning increase in fatalities due to delayed alerts. In response to this pressing issue, our project introduces an innovative Accident Alert System utilizing accelerometer sensor, GPS module, and GSM module. The system is designed to swiftly detect accidents and autonomously trigger alerts without relying on internet connectivity. Upon detecting a significant impact indicative of an accident through the accelerometer sensor, the GSM module initiates an emergency call to the predefined emergency phone number. Simultaneously, the GPS module captures the precise location of the incident, which is then transmitted to the emergency contact. This integrated approach ensures prompt response and assistance in critical situations. Moreover, the system incorporates a sensitivity setting to differentiate between minor impacts and severe accidents, thereby minimizing false alarms. Regardless of the angle or side of impact, the Accident Alert System guarantees timely notifications to emergency services. With the robust functionality and reliance on basic cellular communication, this project offers a cost-effective and accessible solution for enhancing road safety and saving lives.

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