IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.301
Volume 3, Issue 6, May 2023

IoT Based Accident Detection and Alert System

Prof. Madhu R, Arun Kumar T S, Bhakthi V, Sai Sumanth M A, Bharath Raju M
Department of Computer Science Engineering
S J C Institute of Technology, Chickballapur, Karnataka, India

Abstract: *Speed is one of the basic reasons for vehicle accident. Many lives could have been saved if emergency services could get accident information in time. This paper proposes a system that deals with accident detection and alert system. The system uses various components like accelerometer, pressure sensors, Renesas microcontroller to detect the accident occurrence and GPS and GSM to alert the frequent contact person for help. An efficient automatic accident detection with an automatic notification to the emergency service with the accident location is a prime need to save the precious human life. The goal of the proposed system is to detect accident and alert the frequent contact in time.*

Keywords: Accident detection, Alert system, Accelerometer, GPS, GSM, Pressure sensor, Renesas microcontroller.

REFERENCES

[1] Pachopala Yellamma, NSNSP Chandra, Puli Sukhesh, Puligadda Shrinith, Sunkesula Siva Teja, "Arduino Based Accident Alert System using GPS, GSM and MEMs Accelerometer" IEEE 2021.
[2] Dr. C. K. Gomathy, K Rohan, Bandi Mani Kiran Reddy, Dr. V Geetha, "Accident Detection and Alert System" Research Gate, May, 2022.
[3] T Kalyani, S Monika, B Naresh,Mahendra Vucha, Accident Detection and Alert System, IJITEE, March 2019.
[4] Gowshika B, MadhuMitha, G. Jayashree, Vehicle accident detection system using GPS, GSM modem, IRJET, 2019.
[5] Parag Parmar, Ashok M. Sapkal, Real time detection and reporting of vehicle collision, IEEE, 2017.