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IoT Based Smart Accident Monitoring System

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Abstract: Car accidents truly can be considered as one of the most disastrous phenomena. Though the reasons can be different for those accidents like the main problem can be driver's unawareness as well as speed. With the help of IoT we can try to prevent as well as reduce the number of accidents. In this project, we are developing a system which will monitor and help to reduce those accidents. The system will also notify you if a driver has been drinking and that the speed limit has been exceeded. And will also notify the person related to the victim if accident has unfortunately occurred.

Keywords: Global Positioning System, ARDUINO IDE, ESP8266, MPU6050, MQ3 Sensor, etc.

REFERENCES

- [1] "Road Injuries", World Health Organization (WHO), [Onine], traffic-injuries
- [2] Prabha, R. Sunitha, R. Anitha "Automatic Vehicle Accident Detection and Messaging System Using GSM and GPS Modem" International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 3, Issue 7, July 2014.
- [3] Elie Nasr, Elie Kfoury, David Khoury "An IoT Approach to Vehicle Accident Detection, Reporting, and Navigation" 2016 IEEE International Multidisciplinary Conference on Engineering Technology.
- [4] Vijay Savania, Hardik Agravata and Dhrumil Patela "Alcohol Detection and Accident Prevention of Vehicle" International Journal of Innovative and Emerging Research in Engineering Volume 2, Issue 3, 2015.
- [5] Md. Syedul Amin, Jubayer Jalil, M. B. I. Reaz "Accident Detection and Reporting System using GPS, GPRS and GSM Technology" IEEE/OSAIAPR International Conference on Informatics, Electronics and Vision
- [6] Sarasvathi, Nahalingham and Fong, Jason Zu XiN (2018) "Study and Implementation of Internet Things (IoT) Based Vehicle Safety Alert and Tracking System" - INTI Journal, 1 (10). pp. 1-11. ISSN e2600-7920.
- [7] "How manual gearboxes work", gearboxes-work
- [8] "How the braking system works"
- [9] Intelligent traffic management system for smart cities. Author: Abhirup Khanna
- [10] Smart Vehicle accident detection system Author: Vardhini Radhakrishnan
- [11] IOT based advanced accident monitoring system Author Shruthi v pai.
- [12] IOT based vehicle accident detection and monitoring using GPS modem Author: Sweta Bargonda

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[13] Car accident detection system using GPS and GSM Author: Vikram Singh Kushwaha