

# Safety Data Collection using Blackbox

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**Abstract:** This paper presents Smart blackbox system. When information is required following an accident or crime, investigators or police might use the smart blackbox system to collect accident or safety information. Due to increased traffic and aggressive driving by drivers, car accidents are one of the most significant problems in the globe. This information can be used to check the state of the vehicle as well as to investigate accidents and notify family members. The blackbox system is used to continuously record and save vehicle position, temperature, voltage, and other data. The information is then stored in a storage device. We are able to examine, track, and evaluate vehicle situation and collisions. The objectives of the project are made zero accident level in real time all over world and if accidents occur to recover fast very short time.

**Keywords:** Car Accident Detection; Temperature Sensor; Voltage Sensor; Blackbox; Location.

## REFERENCES

- [1]. <http://www.circuitdb.com/?p=1162>
- [2]. <http://www.micropik.com/PDF/HCSR04.pdf>
- [3]. Black-box theory used to understand Consumer behaviour Marketing By Richard L. Sandhu Sen. Retrieved 11/09/2011.
- [4]. Black box theory applied briefly to Isaac Newton.
- [5]. L. DaeGeun, J. Se Myoung, L. MyoungSeob, "System on Chip design of Embedded Controller for Car Black Box", Intelligent Vehicles Symposium IEEE 2007, pp. 1174-1177, 13 June 2007. [https://www.researchgate.net/publication/4334587\\_Vehicle\\_Black\\_Box\\_System](https://www.researchgate.net/publication/4334587_Vehicle_Black_Box_System).
- [6]. International journal of Innovative Science and Modern Engineering (IJISME) ISSN:2319-6386, Volume -2.
- [7]. Prof. M. Nirmala, M. Dinesh Kumar, "Design and Implementation of automotive control features using ARM", Volume-2.
- [8]. N. Enami, N. Ukita and M. Kidode, "Image matching with a car mounted camera robust to changes in imaging conditions," International Journal of Pattern Recognition and Artificial Intelligence, vol. 23, no. 7, pp. 1369-1396, Nov.2009.
- [9]. "Automatic accident notification system using GSM andGPS modems with 3g technology for video monitoring" International Journal of Emerging Trends in Electrical and Electronics (IJETEE) Vol. 1, Issue. 2, March-2013.
- [10]. Dimple R, B S Nanda "Design and Implementation of Smart Black Box System for Gathering the Safety Information in Vehicles", International Journal Of Advance Research, Ideas And Innovations In Technology. ISSN 2454-133X Volume 4, Issue 3.
- [11]. Namrata H. Sane, Damini S. Patil, Snehal D. Thakare, "Real Time Vehicle Accident Detection and Tracking Using GPS and GSM", International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 4 Issue: 4