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(51) International classification	:G07C0005080000, G08B0025010000, G07C0005000000, H04W0004900000, G08B0025100000	(71)Name of Applicant : 1)St. Martin's Engineering College Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad Telangana India (72)Name of Inventor : 1)Mr. N. Daniel Manoj Assistant Professor, EEE Department, SMEC 2)Dr. Askani Jaya Laxmi Principal and Professor, EEE Department, SMEC 3)Mr. B. Sampath Kumar Assistant Professor, EEE Department, SMEC 4)Mr. K. Chandrakanth Student, EEE Department, SMEC 5)Mr. CH. Mani Kanta Sai Student, EEE Department, SMEC 6)Mr. T. Ajay Kumar , Student, EEE Department, SMEC 7)Mr. A. Prashanth , Student, EEE Department, SMEC 8)Mr. Guduri Vardhan Student, EEE Department, SMEC 9)Mr. G. Vineeth Roy, Student, EEE Department, SMEC 10)Mr. K. Ramu Student, EEE Department, SMEC 11)Mr. K. Niranjan Student, EEE Department, SMEC
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(57) Abstract :

The black box concept is derived from the aviation industry, a flight recorder, colloquially known as black box. Although it is now orange coloured for easy search, it is an electronic recording device placed in an aircraft for the purpose of investigating aviation accidents and incidents. With the advancement in technology and cost coming down, in this work to build similar devices for our cars, not only this device will help us in post-crash analysis but also it will help us in post crash analysis but also it will help us in quicker emergency rescue operation. Research has been targeted towards building an integrated system for emergency rescue services in the event of a road accident. Millions of people die due to the accidents. The main purpose of this device is to provide vehicle safety and a solution that automatically alerts the driver to be cautious. In this work continuously monitor the vehicle performance using sensors and also send the message alert. The Vehicle black box receives the information from various sensors like the alcohol sensor, temperature sensor and the distance of surrounding vehicles. The Vehicle black box system can contribute to constructing safer vehicles, improving the treatment of crash victims, helping insurance companies with their vehicle crash investigations, and enhancing road status in order to decrease the death rate. Then the driver's alcohol consumption reaches maximum limit, the messages are sent to emergency contacts. If the accident occurs, by using GSM and GPS the vehicle location is traced and the information is sent to local hospital and police. With the IoT Technology, this location is always traced in the cloud platform service. The push and panic button are used to alert the 24/7 Governance to call out for emergency help

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