

IoT Based Black Box

Introduction

The project is developed to record informational data, such as: engine / vehicle speed, temperature of the engine, etc to revolutionize the field of motor vehicle accident investigation. It can also use for vehicle mapping and accident alert with the help of GPS and GSM technology. This project is designed with the help of Embedded Technology. Embedded systems are playing important roles in our lives every day, even though they might not necessarily be visible. This project is designed with Raspberry Pi, Sensors, GPS receiver, GSM modem and Web Camera. The Black box or Event Data Recorder (EDR), records information about your vehicle and your driving habits. It records speed, status of the driver, alcohol level consumed by driver, status of seat belt, status of car, location information and more. The EDR can provide, for an investigator trained to understand the data, a "snapshot" of what a car and its driver were doing in a crash. It include the ability to collect statistically relevant crash information to improve the safety of cars and trucks, demonstrate the efficacy of traffic laws (like those addressing speed etc), and to allow immediate notification of an accident to emergency personnel. The information can be continuously monitor. The raspberry pi reads the data from the sensors and these parameters will send to the User or family member through IoT.

Block Diagram

