International Journal of Scientific Research & Engineering Trends
Volume 5, Issue 6, Nov-Dec-2019, ISSN (Online): 2395-566X

Vehicle Crash Alert System

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***Abstract* -At the start the GPS continuously takes computer file from the satellite and stores the latitude and line values in AT89s52 microcontroller's buffer. If we have got to trace the vehicle, we'd prefer to send a message to GSM device, by that it gets activated. It jointly gets activated by police work accident on the shock detector connected to vehicle. Parallely deactivates GPS with the help of relay .Once GSM gets activated it takes the last received latitude and line positions values from the buffer and sends a message to the particular vary or PC that's predefined at intervals the program. Once message has been sent to the predefined device the GSM gets deactivated and GPS gets activated.**

***Keywords*- accident monitoring, GPS, accident detection, GSM., Pressure detector, Arduino.**

I. INTRODUCTION

Vehicle pursuit system main aim is to convey Security to any or all vehicles. Accident alert system main aim is to rescuing people in accidents. Typically this can be} often improved security systems for vehicles. the foremost recent like GPS unit of measurement extraordinarily useful presently a days, this method permits the owner to appear at and track his vehicle and confirm vehicle movement and its past activities of motor vehicle.

This new technology, popularly observed as vehicle pursuit Systems that created many wonders at intervals the protection of the vehicle. This hardware is fitted on to the vehicle in such how that it is not visible to anyone administrative body is at intervals or outside of the vehicle. Thus it's used as a covert unit that continuously or by any interrupt to the system, sends matters data to the observation unit. Once the vehicle is taken, matters data from pursuit system is accustomed notice matters and would possibly learn to police for any action. Some Vehicle pursuit System can even sight unauthorized movements of the vehicle so alert the owner. this provides an edge over various things of technology for an analogous purpose.

This accident alert system in it detects the accident and so the situation of the accident occurred and sends GPS coordinates to the specified mobile, pc etc.Vehicle pursuit system main aim is to convey Security to any or all vehicles. Accident alert system main aim is to rescuing people in accidents. Typically this can be} often improved security systems for vehicles. The foremost recent like GPS unit of measurement extraordinarily useful presently a days, this method permits the owner to appear at and track his vehicle and confirm vehicle movement and its past activities of motor vehicle. This new technology, popularly observed as vehicle pursuit Systems that created many wonders at intervals the protection of the vehicle. This hardware is fitted on to the vehicle in such how that it is not visible to anyone administrative body is at intervals or outside of the vehicle. thus it's used as a covert unit that continuously or by any interrupt to the system, sends matters data to the observation unit. once the vehicle is taken, matters data from pursuit system is accustomed notice matters and would possibly learn to police for any action. Some Vehicle pursuit System can even sight unauthorized movements of the vehicle so alert the owner. This provides an edge over various things of technology for an analogous purpose. This accident alert system in it detects the accident and so the situation of the accident occurred and sends GPS coordinates to the specified mobile, pc etc.

II.RELATED WORK

Hue Hu1 , Lain Fang[1] supported the background that vehicle observance system had imperative necessity recently, the paper recommend a overall theme of car observance system combining with international Positioning System (GPS), international System for Mobile Communication (GSM) and Geographical data system (GIS), introduced the key technologies of this observance center code, designed the perform code of observance center supported VC code platform and eventually achieved the aim that observance center created period of time position to vehicle terminal. The experimental results indicate that the planning program is efficient, reliable and has the perform of correct positioning and observance. Mayuresh Desai[2] he main objective of the paper is to explain a system which may monitor or track the placement and vehicle parameters of various take a look at vehicles from a centralized place for

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analysis and development functions and to store information of testing parameters of these vehicles on the server for additional analysis and records. System style are going to be generalized for observance completely different parameters like Location, Vehicle speed, Engine compartment temperature, Fuel consumption and lots of a lot of projected system uses Open supply controller and GPS/GSM/GPRS module for information transfer application. Standard inherent automatic accident notice ion system utilizes impact adult male or the automobile airbag adult male to detect associate accident and GPS to find the accident place.

Projected a main road incident detection system by utilizing the automobile bag device and measuring instrument, GPS to find the accident place and GSM to send the accident location [4].However, the system didn't utilize the GPS to notice the accident. A wise phone primarily based accident detection system is projected by C. Thompson et al. [5] However, sensible phones are terribly big-ticket and thanks to warning filter; it's going to not notice all accidents associate acoustic accident detection technique is projected by D. A. Whitney and J. J. Pisano [6].

There are potentialities of warning within the system associated conjointly doesn't guarantee the incidence of an accident. Associate accident detection by utilizing a control device and coverage system by wireless module is projected by R.K. Megalingamet al. [7].However, a wireless coverage infrastructure is incredibly big-ticket and troublesome to implement as installation of recurrent receivers on the road at a really short interval are needed. The projected technique aims to beat the on top of mentioned limitations and utilizes solely the GPS information to notice the accident and GSM network to send the placement and activate a voice channel with the Alert Service Center.

III. METHODOLOGY

This vehicle chase system takes input from GPS and sends it through the GSM module to desired mobile/laptop victimization mobile communication. Vehicle chase System is one amongst the most important technological advancements to trace the activities of the vehicle.

The safety system uses international Positioning System GPS, to seek out the situation of the monitored or self-propelled vehicle so uses satellite or radio systems to send to send the coordinates and therefore the location knowledge to the watching center. At watching center numerous software's area unit won't to plot the Vehicle on a map. during this means the Vehicle homeowners area unit able to track their vehicle on a period of time basis. because of period of time chase facility, vehicle chase systems have become more and more widespread among homeowners of pricey vehicles.

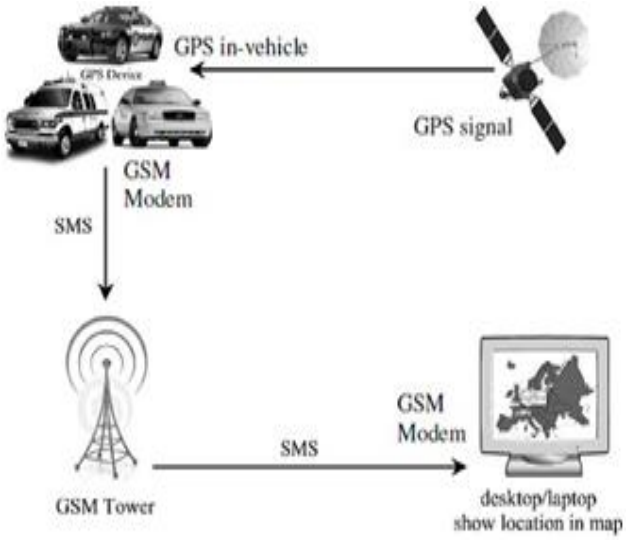

Fig.1. Overview of the system.

1. Vehicle chase options :

It is primarily profit for the businesses that area unit supported transport system. Since it will show the position of all vehicles in real time, in order that they will produce the expected knowledge consequently. These chase system will store the total knowledge wherever the vehicle had gone, wherever did it stop, what quantity time it take at each stop and might produce whole knowledge analysis. It's conjointly employed in buses and trains; to estimate however way area unit they, what quantity time it takes for them to return to a selected stop. These systems area unit wont to knowledge capture, knowledge storage, knowledge analysis and eventually knowledge transfer.

2. Accident Alert System Features:

This system is predicated on new technology, its main purpose is to find AN accident and attentive to the room, that the victim will notice some facilitate. It will find accidents the intensity of the accident with none visual contact from room. If this technique is inserted in each vehicle then it's simple to know what number vehicles area unit concerned in an exceedingly explicit accident and the way intense is it. in order that the assistance from room are in line with the room. the current board designed has each vehicle chase and accident alert systems, that create it additional valuable and helpful. This board alerts US from felony and on accident detection conjointly. This device detects hearth accidents conjointly by putting hearth detector in one amongst the interrupt pins.

IV. CONCLUSIONS

Vehicle following system makes higher fleet management and that successively brings giant profits. Higher

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programming or route designing will modify you handle larger jobs hundreds inside a selected time. Vehicle following each just in case of non-public further as business purpose improves safety and security, communication medium, performance observance and will increase productivity. Therefore within the returning year, it's planning to play a serious role in our everyday living. Main slogan of the accident alert system project is to decrease the probabilities of losing life in such accident that we have a tendency to can't stop from occurring. Whenever accident is alerted the paramedic's area unit reached to the actual location to extend the probabilities of life. This device invention is way a lot of helpful for the accidents occurred in deserted places and midnights. This vehicle following an accident alert feature plays way more vital role in day to day life in future.

V. FUTURE SCOPE

The planned system deals with the detection of the accidents. However this could be extended by providing medication to the victims at the accident spot.

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