A New Trend in Automatic Vehicle System

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Abstract— As of late framework has grown colossally however in like manner the mischance rate likewise expanded colossally. In the current framework just the human sees that the mishap has happened and they will call to the emergency vehicle and the scope of rescue vehicle to the spot is late because of that there is enormous loss of human life and for that an answer is raised by utilizing vibration sensor which faculties amid the event of mishap and utilizing GPS(global situating framework) the scope and the longitude of the position can be found and utilizing GSM(global framework for versatile correspondence) modem the position of the message can be send to the working focus and the working focus will have the GIS(geographical data framework) through which can discover the area effectively and they can call to the adjacent rescue vehicle and they will achieve the spot fastly and this all will occurs inside two minutes by this human life can be spared. On the off chance that this framework is executed we can spare upto sixteen people each hour on the grounds that generally the mishap will be little yet because of loss of more blood the individual will kick the bucket if the emergency vehicle achieve the spot inside couple of minutes of the mischance at that point the individual life can be spared effortlessly and the cost of framework is likewise low since these days the greater part of the vehicle is fitted with a GPS modem and just we need to get a GSM modem and a controller thus the framework will be taken a toll proficient.*

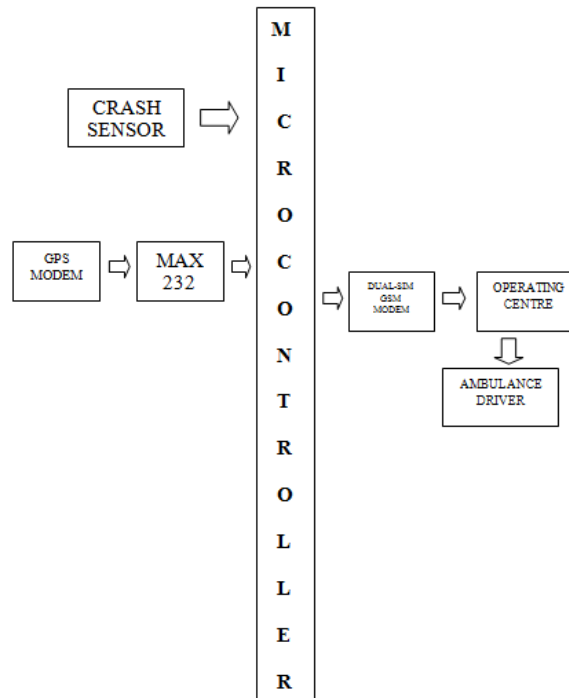*Keywords--- PIC Microcontroller, GSM modem, GPS Modem, Crash Sensor.*

I. INTRODUCTION

Presently a day's foundation has grown yet the quantity of mishaps are additionally getting expanded despite the fact that numerous mischances are minor yet because of absence of medical aid and the span of emergency vehicle to the spot is late so there is an enormous number of individuals are losing the life consistently. Twenty individuals bite the dust each hour in street mischances in India - times India provides details regarding 2012. to diminish the quantity of individuals losing the life in the proposed framework, sending programmed data to the rescue vehicle what's more, the emergency vehicle will achieve the spot fastly and can spare human life and decrease number of individuals kicking the bucket each day. The proposed framework is to lessen the passing rate of human consistently because of mischances by sending programmed SMS to the emergency vehicle thus can spare human life. To guarantee the security of the traveler and help the traveler if the mishap happens is the key pretends in our venture. The human life is inestimable and it's are prime obligation to spare the human life.

II. PROPOSED METHODOLOGY

In the proposed framework, if a mishap happens the vibration sensor in the vehicle faculties and sends the data to the microcontroller that the mishap has happened and the GPS modem constantly gets the co-ordinates (scope and longitude) and gives the information to microcontroller and if the flag originates from the sensor then the

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microcontroller sends the data acquired from the GPS modem through the GSM modem to the working focus and the working focus break down the spot and offers data to the adjacent rescue vehicle thus the emergency vehicle can achieve the mischance spot in couple of minutes and can spare the human life.

III.   PROPOSED SYSTEM DESIGN
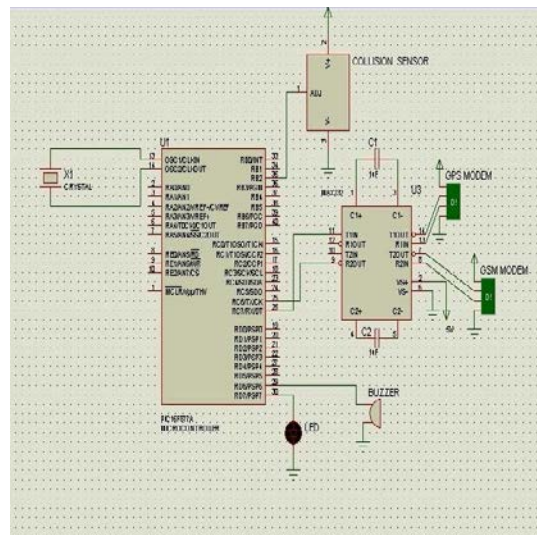
The venture comprise of vibration sensor, GSM modem, GPS modem, hand-off, microcontroller. In this the vibration sensor faculties when the mishap happens and it activates the transfer, in this the basic is given by supply and when the sensor is detected the flag from the sensor is given to the operation amp in which its intensified and after that it's given to the ULN driver and from it is given to the hand-off as a ground , if the sensor detects then the flag is send to the controller through the transfer also, the scope and longitude from the GPS modem is gotten to the

controller and if the controller gets the flag from the vibration sensor then it sends the scope and longitude to the working focus through the GSM modem and the working focus comprise of GIS in which if sort the scope and longitude it will give the right area and after that call to the closer rescue vehicle and they can achieve the mishap spot fastly thus can spare the human life.

IV. CONCLUSION

Subsequently the proposed framework gives an answer for the vehicle mishap data, if a vehicle gets mischance, at that point the worldwide situating framework (GPS) modem assembles the scope, longitude of the mishap zone and sends to the working focus through worldwide framework for versatile correspondence (GSM) modem. So the working focus will get the SMS inside couple of moments after the mishap happens and the working focus comprises of land data framework (GIS) which gives current position of the mischance and afterward the working focus will call to the adjacent emergency vehicle and gives the hint thus the human life can be spared.

V. FUTURE SCOPE

The venture can be additionally stretched out by utilizing the smaller GSM modem and GPS modem so the framework will progress toward becoming conservative and the SMS can be send through SOS(save our spirit) programming. In future, it should be possible to resend the SMS if the SMS is not conveyed to the working focus so the conveyance of the message can be known.

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