Design Doc Template

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Revision History

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| Date | Revision | Description | Author |
| 22/05/2019 | 0 | Initial draft of the design doc template | xyz |
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# Introduction

## Summary

* The main intension of this project is to find the accident spot at any place and intimating it to ambulance through the GPS and GSM networks.

## Background

* When an accident occurs, the piezoelectric plate gives the electrical signal to MC.

## Definitions, Acronyms, and Abbreviations

* Global System for Mobiles(GSM) technology is used to establish cellular corrections.
* GPS is used to trace the position of the vehicle.

# Design Overview

## Requirements

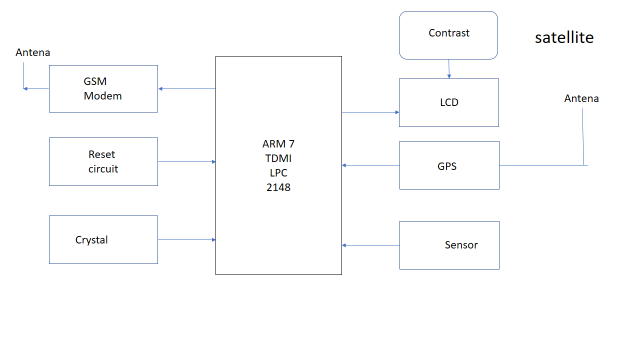
* Power supply and Vibration sensor
* Micro controller
* Liquid crystal display
* Keypad and DB9 connector
* DPDT relay
* GPS module
* GSM module

### Documentation

## Future work

This can be developed by interconnecting a camera to the controller module that takes the photograph of the accidents spot that makes the tracking easier.

# System Diagrams



# Application Programming Interface

Car security system.

Wireless security system.

Automation system.

Remote keyless entry

# User Interface

GPS and GMS are used

# Project Overview

## Communication and Tracking

* When an accident occurs, the piezoelectric plate gives the electrical signal to MC.
* MC switches GSM and GPS network by using DPDT switch.
* GPS receiver takes latitude and longitude through antenna.
* GSM transmitter sends this information to control system.

## Risks

The biggest problem is the blockage of signal transmission by mountains , high building , tunnels

## Milestones

It will be completed on June ending.

## Cost

GSM – 1,999rs

GPS - 842rs

Buzzer – 90rs

Mercury – 599rs

LCD – 1,806rs

SIM adapter- 199rs

Total – 5,535

# Frequently Asked Question

Which GSM modem is used in this project?

Can we add sensors with this project?

# References

[www.Ask.com](http://www.Ask.com).

[www.EngineersGarage.com](http://www.EngineersGarage.com)

Google images.