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VEHICLE COLLISION DETECTION AND PERSON IDENTIFICATION BY USING INTELLIGENT SYSTEM

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ABSTRACT:

Here a system is designed based on the well effective strategy oriented with respect to the tracking of the GPS followed by the accelerometer of the MEMS in a well efficient fashion and is implemented by the use of the back box oriented with the wireless scenario have been implemented in the present scenario respectively. Here in the above scenario there is a requirement of the some of the component or the modules for the design oriented analysis and some of them includes unit of micro controller, Accelerometer, Device of the GPS, Module of the GSM respectively. Here the accident oriented event in which the device used in the type of the wireless strategy rather than the wired scenario in which transmission of the short message takes place by the help of the indication of the vehicle position in a well oriented fashion to the member of the family by the help of the scenario included as the service of the emergency medical phenomena plays a crucial role in its implementation to the hospital nearest to the prone area based aspect respectively. Here the algorithm is designed with a well efficient analysis based on the consideration of the threshold oriented factor by which there is an where the determination of the motor cycle speed can be easily detected for the real time basis of the accident followed by the fall respectively. Here the above design oriented scenario can be user friendly and can be easily installed it is in the form of the software where for the accurate analysis it is on the rider's oriented seat and it is compact in terms of the usage respectively. Here the present scenario has been conducted a lot of the test bed oriented scenario by which it is related to the implementation of the real world scenario in the usage of the bicycle oriented aspect respectively in a well effective manner.

Simulations have been conducted on the present method and a lot of analysis takes place on the huge number of the data sets in a well oriented fashion with respect to the unknown environments respectively.

Keywords: GSM, MEMS, GPS, Emergency medical service, Unit of micro controller, Accelerometer, Monitoring accidents respectively.

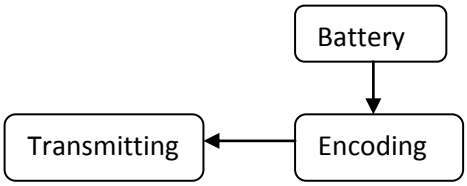
1. INTRODUCTION

Now a days there is a lot of concern followed by the major problem due to the accidents in the society due to the recklessness driving of the vehicles and it is facing in many of the countries respectively. There is a huge challenge for the present method in order to predict the particular phenomena under the control in a well stipulated fashion is a major concern. Here the campaigning related to the awareness program there is a lot of increasing the problem in the rapid speed due to the ill manner of the drivers and some of them includes as follows, No protection, Driving with recklessness without proper guidance, Drunk and drive respectively [2][3]. Here apart from the present strategy there is a major problem and increase in the disability followed by the death in the countries. Therefore due to which there is a increase in the poverty based aspect and also the problems arise in the scenario of the social followed by the economic aspects respectively [1].

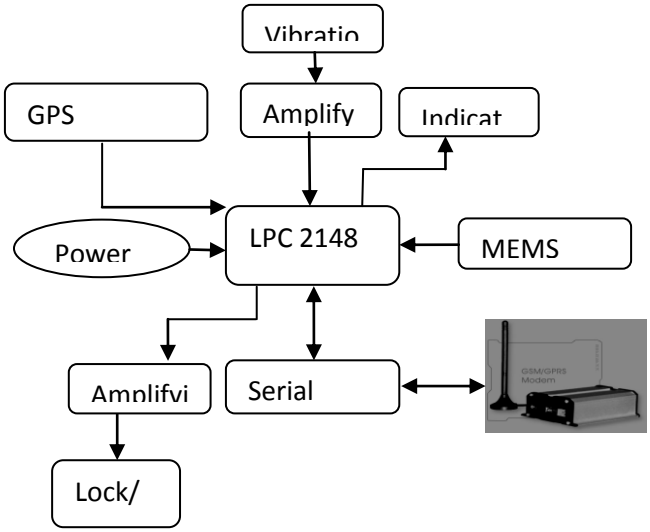
Therefore there is a huge necessity of implementing a new technique in which in order to overcome the above problems and used to control oriented strategy for the development of the system in a well stipulated fashion respectively.

BLOCK DIAGRAM

Person RF Section:



Vehicle Section:



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Medical Section:

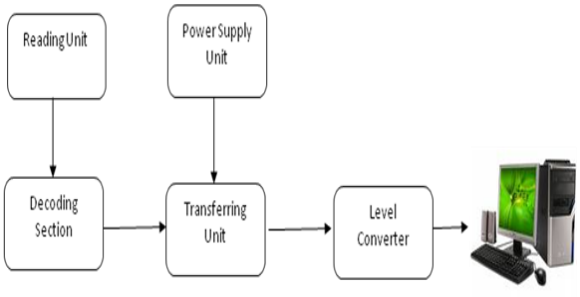


Fig 1: Block Diagram

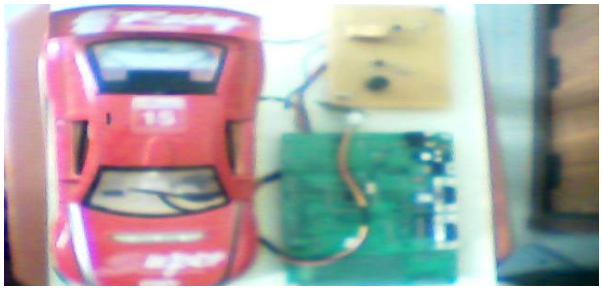


Fig 2: Kit Demonstration

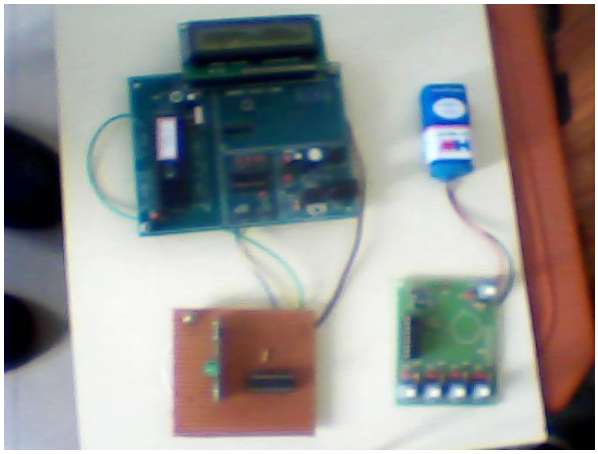


Fig 3: Medical Kit

2. METHODOLOGY

In this paper a method is designed with a well efficient framework oriented strategy where there is an accurate implementation based strategy followed by the improvement in the performance and finally yields to the entire system based outcome in a well oriented fashion respectively [5]. Here the implementation of the present method is shown in the above figure in the form of the block diagram and is explained in an elaborative fashion respectively [6] . There is a huge challenge for the present method in which there is an accurate analysis of the several previous methods with respect to the theoretical aspects followed by the degraded performance oriented strategies in a well oriented fashion respectively where it is used for the controlling of the degraded performance of the previous methods in a well oriented aspect followed by the improvement in the outcome oriented with the entire system respectively [4]. Here the present method completely overcome the problems of the several previous methods in a well oriented fashion respectively. Therefore we finally conclude that the present method is effective and efficient in terms of the analysis followed by the accuracy based on the performance based criteria respectively.

3. EXPECTED RESULTS

A lot of analysis on the present method where a large number of experiments conducted on the different number of the datasets in a quite respective fashion. Here we finally conclude that the present method is designed with an effective framework where it completely controls the degradation of the performance orient to previous techniques in an effective fashion. A comparative analysis have been conducted on the present method to that of the several previous existing techniques and are shown in the below figure and in a elaborated fashion in a graphical representation respectively. Therefore the present method is effective and efficient in terms of the performance based strategy and the results are accurate and it is efficient comparing to the methods implemented previously.

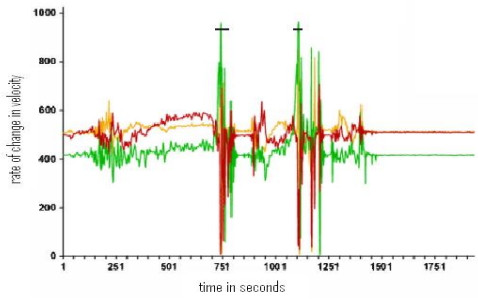
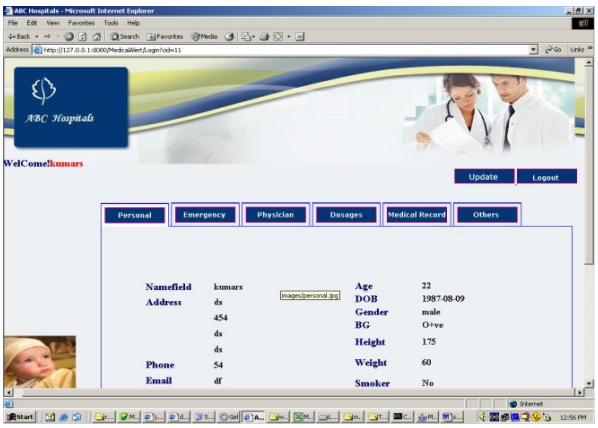


Fig 4: Shows the graphical representation of the present method respectively

Output Screen Shots:



4. CONCLUSION

In this paper we concluded that whenever an accident takes place a lot of persons will lose their lives. Some people can be saved at that time, but because of lack of information, time and place it may not be possible to save all. Our paper will provide an optimum solution to that draw back.

An accelerometer can be used in a car alarm application. Dangerous driving

can be detected with an accelerometer. According to this paper when a vehicle met with an accident immediately the vehicle position and persons contact number will be transferred to medical control room or a rescue team. So the related team can immediately trace the location from where the message came. Then after conforming the location necessary action will be taken by using GSM and GPS technology.

In second application on uncertain situation, vehicles have centre locking system, such as door locking system faces many problem due to automatic locking system. At that situation there is no way to open the lock.

In third application the paper focuses on implementation of Radio Frequency Identification technology (RFID) to improve the Crash Notification System with First-Aid Profile (FAP). First-aid active RFID tag is pre-coded with a unique serial number (FAP-ID) that can be used to gain access to the First-Aid profile of that tagged person. Compatible reader detects the presence of First-aid tags and reports their FAP-IDs to the control unit, so that in crash situation, all passengers' FAP-IDs will be messaged to Emergency Medical Service Center.

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