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Vehicle Monitoring System for Preventing Unauthorized Activities

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ABSTRACT: The vehicle refers to assortment of many completely different recording devices. Vehicle watching is "Event information Recorder". Recording equipment records the relevant details a few Vehicle like vehicle load, Speed of auto, sight the vibration of the vehicle and spars area unit removing watching sight orientation or inclination of auto. The look selects ARDUINO UNO as embedded controller, CART is the common peripheral found a microcontroller wide used for GSM module, GPS module.

Vehicle watching could be a device to driving history which may be used for automotive forensics just in case of automotive accident or connected crimes. Recording equipment stores vehicle information that might be vital clues for work car-related accidents or crimes. This information is collected to police server via SMS infrastructure that gives GSM connections.

Especially, sensible phones area unit terribly helpful for this purpose. The vehicle accident could be a major public downside in several countries. This downside remains increasing thanks to rider's poor behaviours such as speed driving, vehicle load increasing riding while not enough etc. vehicle watching has logical feature considering that additional folks' area unit die in automotive accidents than associate degree airplane crashes of investigation.

KEY WORDS: Arduino UNO, Load Cell, IR Sensor, Vibration Sensor, GPS, GSM.

I.INTRODUCTION

The vehicle accident could be a major public downside in several countries. This downside remains increasing thanks to rider's poor behaviours such as speed driving, vehicle load increasing riding while not enough etc. vehicle watching has logical feature considering that additional folks' area unit die in automotive accidents than associate degree airplane crashes of investigation.

The causes of automotive accident aren't too troublesome to research as plane crashes. However, their area unit cases that area unit terribly troublesome to resolve thanks to contradictory stories of drivers. They're notably valuable once no witness is gift at the scene of accident, and once every driver has their own version of event. Vehicle watching is digital physics' device, that vehicles speed, vehicle location, vehicle load, vibration, real time and vehicle alternative standing data. It helps to get associate degree to investigate the rationale of an accident simply and to settle several disputes associated with automotive accident like crash, and insurance settlements.

Arduino UNO

Arduino/Genuine UNO could be a microcontroller board supported the ATmega328P. it's fourteen digital input/output pins (of that vi is used as PWM outputs), vi analogy inputs, a sixteen MHz quartz, a USB association, an influence jack, associate degree CISP header and a push button. It contains everything required to support the microcontroller; merely connect it to a laptop with a USB cable or power it with associate degree AC-to-DC adapter or battery to urge started. You'll tinker together with your UNO without concern an excessive amount of concerning doing one thing wrong, worst case situation you'll replace the chip for a number of bucks.

II.EXISTING SYSTEM

Low level {of information|of knowledge|of information} protection - DAC will's guarantee reliable security as a result of users can share their data, but they like. Obscure — there's no centralized access management,

thus to search out access parameters, you've got to envision every ACL. And computing technologies making a replacement level of information services in vehicles. The car recording equipment has functions just like associate degree airplane recording equipment. It's wont to analyse the reason for conveyance accidents and forestall the loss of life and property arising from vehicle accidents.

This paper proposes an image of associate degree Automobile recording equipment System which will be put in into vehicles. The system aims to realize accident analysis by objectively chase what happens in vehicles. The system conjointly involves sweetening of security by preventing meddling of the recording equipment information. Additionally, the recording equipment sends associate degree alert message to a pre-stored mobile range via Short Message Service (SMS) within the case of prevalence of associate degree accident.

Drawbacks

In this paper, vehicle safety system which might not record the information, and conjointly attainable collision by over speed of the vehicle in accident. Just in case of associate degree accident, the time and placement (co-ordinates) won't send to the native space communication.

III.PROPOSED SYSTEM

The vehicle refers to assortment of many totally different recording devices. Vehicle observation is" Event information Recorder". Recorder records the relevant details a couple of vehicles like vehicle load, Speed of car, discover vibration of the vehicle and spars area unit removing observation discover orientation or inclination of car.

The planning selects ARDUINO UNO as embedded controller, UART is the common peripheral found a microcontroller wide used for GSM module, GPS module. Vehicle observation could be a device to driving history which may be used for automobile forensics just in case of automobile accident or connected crimes. Recorder stores vehicle information that might be crucial clues for work car-related accidents or crimes. This information will be collected to police server via SMS infrastructure that gives GSM connections. Especially, sensible phones area unit terribly helpful for this purpose.
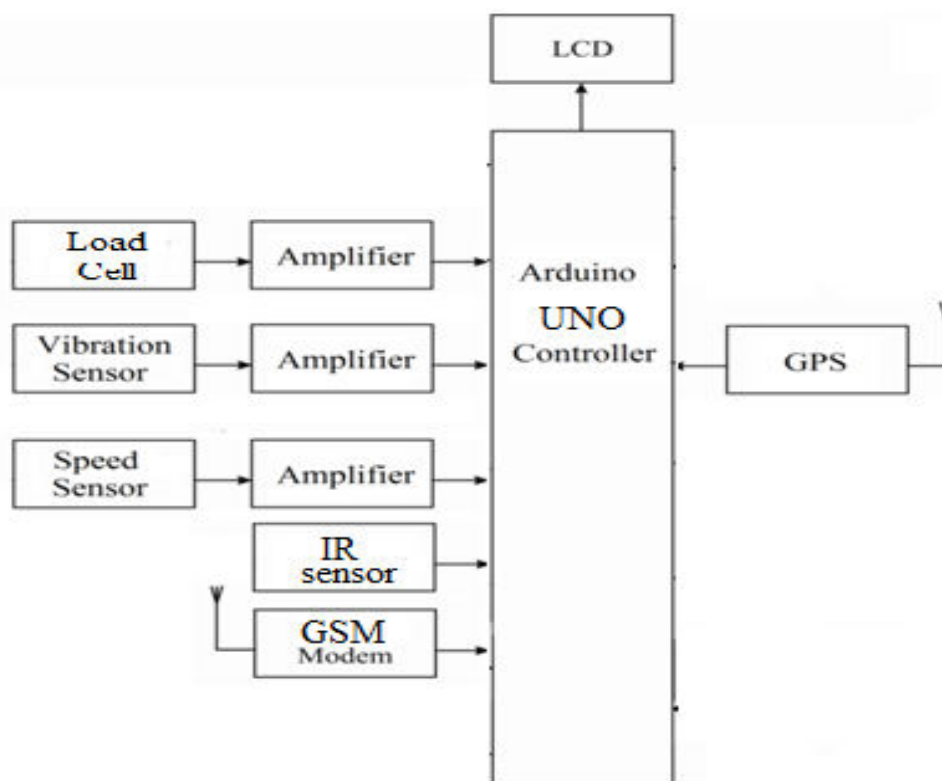

Figure 1. Proposed System

IV.CONCLUSION AND FUTUREENHANCEMENT

In our thesis we've developed a vehicle chase system that's versatile, customizable, and correct. The GSM electronic equipment was organized, and that we tested and enforced the chase system to observe the vehicles' location via SMS and online on Google map. To show the position on Google map we've used Google map API.

The Arduino is the brain of the system and also the GSM electronic equipment is controlled by AT commands that modify information transmission over GSM network whereas the GPS offer the placement information. Whenever the GPS receives a replacement information, it's updated within the information and thence, we to tend to area unit ready to see the placement on the Google map. The project includes a terribly immense scope in the future. The project will be enforced on computer network in the future. Project will be updated in close to future as and once demand for an equivalent arises, because it is incredibly versatile regarding growth. With the planned software system of information area Manager prepared and absolutely purposeful the shopper is currently ready to manage and thence run the whole add a far higher, correct and error free manner.

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