For more Project details visit:

http://www.projectsof8051.com/office-cab-tracking-system-using-gps-and-gsm-technology/

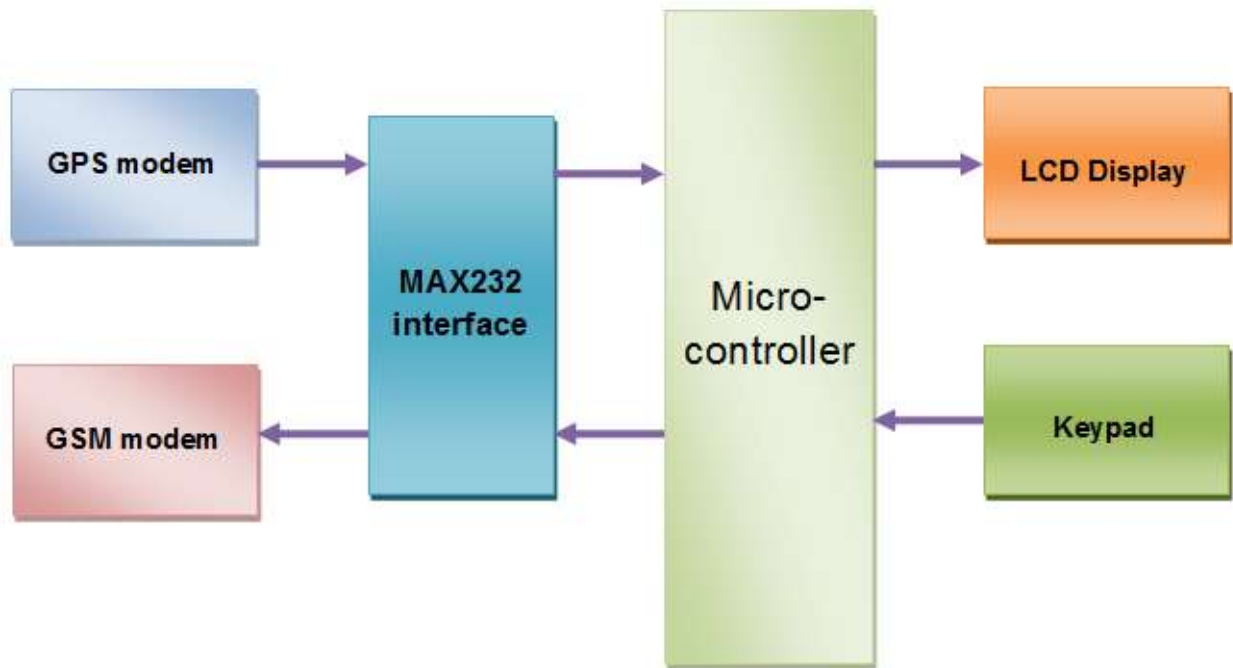| Code	Project Title
1863	Office cab tracking system using GPS and GSM technology

Synopsis for

Office cab tracking system using GPS and GSM technology

1. Introduction

In day today life working women security is very important. Specially BPO and IT industry women employees are working late night. Their company provides them cab facility for transportation. However security for them is not enough specially at night times. So we have designed this project. In this project we have mainly tracked the cab vehicle and SMS is sent to company authority as well as to the relative of employee. If women employee find herself in a difficulty or some kind of danger (problematic) situation then she can press only one switch and then alert message with vehicle coordinate is sent to the respective numbers. The message contains alert message, longitude and latitude with cab number. We have provided key switch for instant alert message. This helps to track the cab and it is very helpful to the working women's security.

2. Block Diagram

Text sms

Coordinates of Vehicle :-

Longitude = 18 38.6878 N

Latitude = 73 45.3423 E

3. Description

project specification :

Microcontroller :

In this circuit we use 80s51 microcontroller .this is from 8051 family

GPS modem:

 The Global Positioning System (GPS). GPS modem use to tracking exact location.

GSM modem:

we use GSM modem for sending co ordinate and alert message. use SIM900 GSM modem for this .GSM modem send alert message on respective numbers .

MAX232

we use RS232 for the serial communication .

2) LCD:

Liquid Crystal Display which is commonly known as LCD is an Alphanumeric Display it means that it can display Alphabets, Numbers as well as special symbols thus LCD is a user friendly Display device which can be used for displaying various messages unlike seven segment display which can display only numbers and some of the alphabets. Here we have used 16 x 2 Alphanumeric Display which means on this display we can display two lines with maximum of 16 characters in one line.

Hardware Requirements

- 8051 series Microcontroller
- Transformer
- GSM Modem
- GPS Modem
- MAX 232
- Diodes
- Resistors
- Capacitors
- Crystal
- Transistor

Software Requirements

- Keil Compiler
- Language: Embedded C Or Assembly

USES:

Office Cab

Private vehicle

School bus

Ambulance tracking .

Applications and Advantages:

1) This project can be used for detection of cab or car of companies.

3) Theft Protection: This project can be very useful when your vehicle or car is stolen.

Future Development:

1. We can monitor some parameters of vehicle like overheat or LPG gas leakage

For more Project details visit:
http://www.projectsof8051.com/office-cab-tracking-system-using-gps-and-gsm-technology/