

## Vehicle tracking by GPS - GSM

### **ABSTRACT**

The project is designed to find out the exact location of any vehicle and intimate the position to the concerned authority about through an SMS.

This system includes a GPS modem which retrieves the location of a vehicle in terms of its longitude and latitude. This data is fed to the microcontroller which is interfaced with a GSM modem. Microcontroller retrieves the location details from the GPS and sends it to the concerned authority in the form of an SMS over GSM modem on periodical intervals so set by the user. An LCD display is interfaced to the microcontroller for crossing the data received before being sent over GSM

Adopting this technology will be highly useful to transport companies to keep tracking their vehicles . This project can be further enhanced by making an arrangement to stop the vehicle ignition by the owner remotely by sending an SMS in theft situations.

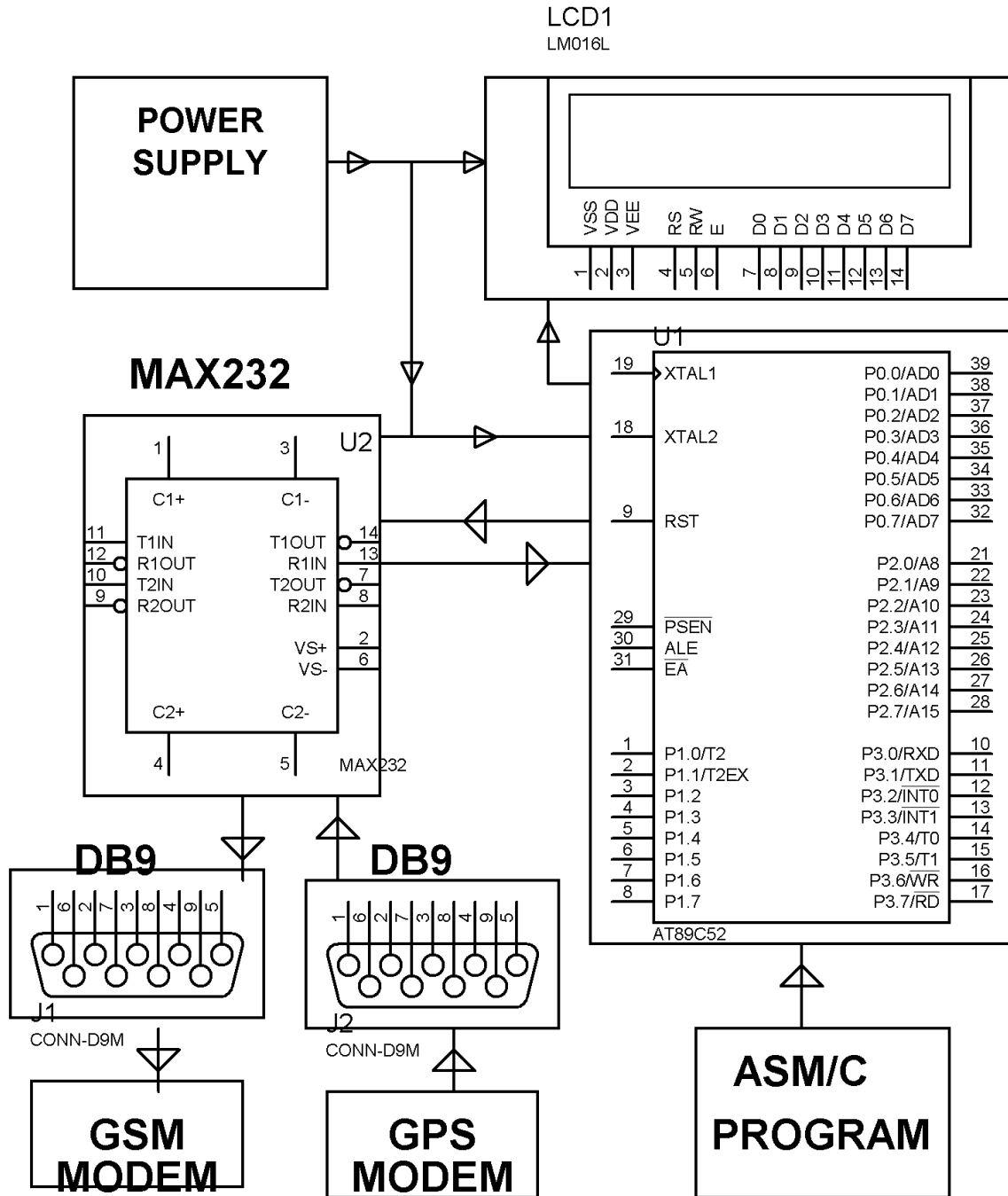
#### **HARDWARE REQUIREMENTS:**

Micro controller unit (AT89C52), Max232, GSM module, Resistors, Capacitors, voltage Regulator, DB9 connector, GPS,LCD display

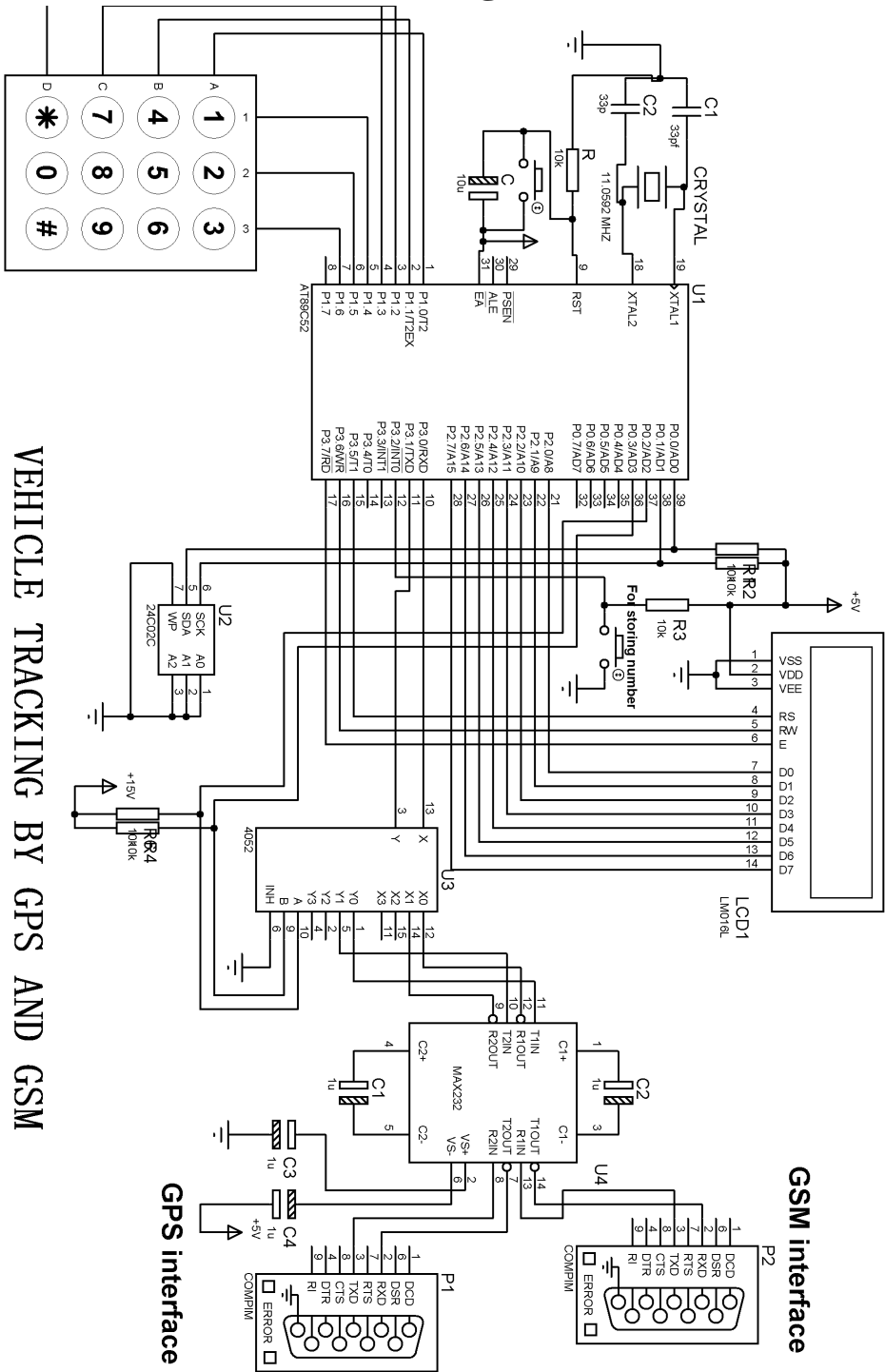
#### **SOFTWARE REQUIREMENTS:**

Keil compiler, Language: Embedded C

# block diagram



# Circuit diagram



## VEHICLE TRACKING BY GPS AND GSM



<b><u>COMPONENT NAME</u></b>	<b><u>QUANTITY</u></b>
<b><u>Resistors</u></b>	
330R	1
10K	6
10K PRESET	1
<b><u>Capacitors</u></b>	
470uF/35V	1
10uF/63V	4
1uF/63V	4
33pF CERAMICE	2
<b><u>Integrated Circuits</u></b>	
7805	1
7809	2
AT89S52	1
24C02	1
MAX232	1
CD4052	1
<b><u>IC BASES</u></b>	
40PIN BASE	1
16PIN BASE	2
08PIN BASE	1
<b><u>Diodes</u></b>	
1N4007	4
<b><u>Miscellaneous</u></b>	
GSM MODEM	1
GPS	1
DB9 STRAIGHT CORD	1
DB9 MALE CONNECTOR PCB-MOUNT	2
RED-LED	1
LCD                    16X2	1
2-PIN PUSH BUTTON	2
POWER CORD	1
TRANSFORMER        0-12V	1
CRYSTAL              11.0592MHz	1
MALE BURGE           2PIN	1
MALE RELIMENT      2-PIN	2
7-PIN MALE RELEMENT	1
7-PIN 1-SIDE FEMALE RELEMENT	1
KEYPAD (4X3)	1
DC PIN SOCKET	2
2-PIN 1-SIDE FEMALE RELEMENT	2
FEMALE BURGE        16PIN	1
MALE BURGE           16 PIN	1(INCLUDED WITH LCD)
HEAT SINK	1
SCREW NUT FOR HEAT-SINK	1

**For complete synopsis, weekly reports, source code, black books**

**Please mail your complete details on [support@makeitortakeit.in](mailto:support@makeitortakeit.in)**

**We will mail you within 24hours from the time you mail us.**

Name of the student

PROJECT NAME

Group member1

Group member 3

Group member 2

Group member 4

Group member 5

College name

Branch

**Note to make your kit /project**

You need basic knowledge & logic of components /soldering /disordering /breadboard circuiting/PCB designing/etching.

1. You can download the projects from our website [makeitortakeit.in](http://makeitortakeit.in) and get started to build one, we help you with the basics of know & how.
2. You can purchase the complete do it yourself kit & assemble it.
3. At the last moment, If you are short on time /if your project is not giving output!!!!!! Readymade project kit is available.
4. **Training (optional)** available if you want us to help u in your projects, it includes.
  - 7 sessions, (timing mutually decided).
  - hands on training on breadboard circuiting ,soldering,desoldering,pcb making ,how to use instruments
  - Stepwise guidance you build your project right from the scratch \*\*.
  - complete documentation/references(hard & soft copy)
  - Plotting and Implementing Scale Model.
  - Troubleshooting.
  - Programming of Controllers
  - PCB Software tool, Hardware Cutting, Drilling and Etching