
DEVELOPMENT OF VEHICLE SECURITY SYSTEM

A vehicle tracking system combines the installation of an electronic device in a vehicle, or fleet of vehicles, with purpose-designed computer software to enable the owner or a third party to track the vehicle's location, collecting data in the process. Modern vehicle tracking systems commonly use Global Positioning System (GPS) technology for locating the vehicle, but other types of automatic vehicle location technology can also be used. Vehicle information can be viewed on electronic maps via the Internet or specialized software. In the main they are easy to steal, and the average motorist has very little knowledge of what it is all about. Urban public transit authorities are an increasingly common user of vehicle tracking systems, particularly in large cities. To avoid this kind of steal we are going to implement a system it provides more security to the vehicle.

Existing System:

In the previous system security lock and alarm is implemented in a car. If a burglar can break open the lock, then it becomes easy for the burglar to steal the car. And in old security system if the car is stolen then it is out of the owner control. User doesn't have any awareness about the current location of the vehicle. Technology is having lots of drawback.

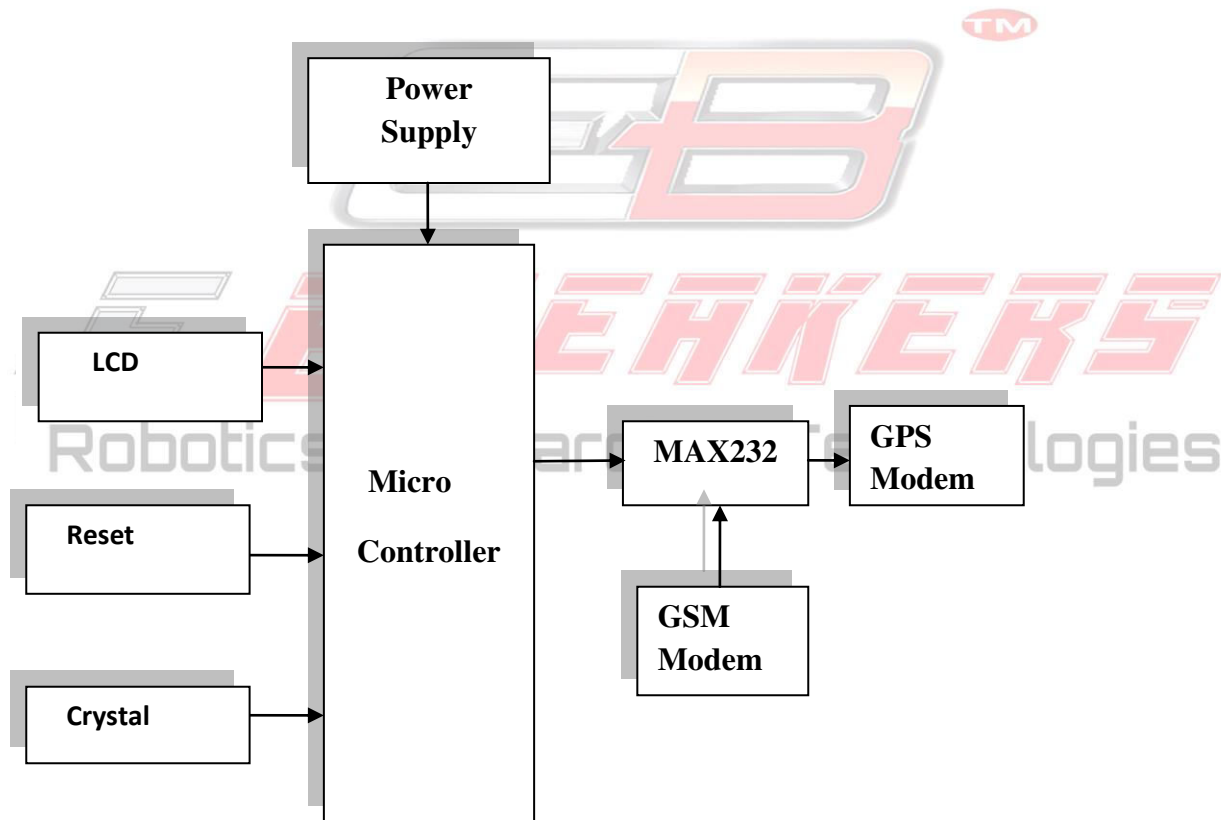
Proposed System:

The RF transmitter is attached with the vehicle which has its own identification. This data will be continuously transmitted to the RF receiver connected to the microcontroller. This GPS is used to locate the position of vehicle and transmit the data to the microcontroller. Suppose the RF receiver is not receiving signal from the transmitting unit, receiver unit send the signal to the microcontroller, from that we can identify the theft. If the vehicle is theft it

automatically sends location of the vehicle to its owner as a SMS through GSM modem. This will be a much simpler and low cost technique compared to others. If a password like SMS is sent by the owner, it automatically stops the vehicle. And receiving a SMS from that vehicle with GPS value also.

Block diagram:

TRANSMITTER SECTION



RECEIVER SECTION



Hardware Requirements:

- 1) Micro Controller.
- 2) LCD.
- 3) GPS Module.
- 4) GSM Module.

Software Requirements:

- 1) Keil C compiler.
- 2) Embedded C.

Advantage:

- It provides more security.
- From the remote place we can access this system.
- By this system we can position the vehicle in exact place.

Disadvantage:

- GSM is always depend on some other constrain like signal.
- User of both GPS and GSM may increase the cost.

