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## EXPERT SYSTEMS AND SOLUTIONS

48, North Street, Aranarai, Perambalur, Tamil Nadu, India.

Email ID: [expertsysol@yahoo.com](mailto:expertsysol@yahoo.com),

Website: [www.researchprojects.info](http://www.researchprojects.info)

Phone: 9952749533,

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### **GSM based Highway Road Traffic Monitoring System.**

This project monitors and stores the data about number vehicles moving on the highway roads. This project uses infrared/laser sensor system to count the number of vehicles passing in both the directions. The vehicle count is logged by the microcontroller. This vehicles information is sent to the user over GSM modem. The information can be sent to the user periodically or can be sent on demand by sending a missed call or SMS.

ASL GeoConnect is a GUI based application software, installed at the Desktop of the Control Station. Using this, the operator of a fleet can query any vehicle fitted with GeoPoint 2407 Unit and obtain its position in real time, or send/receive text messages to/from the Unit. Alternatively, vehicles can be configured to report their position to Control Station at set intervals and automatically update a database at the Control Station. This data can be read from the database and the position displayed on a digital map.

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### **GPS & GSM Based Realtime Vehicle Tracking System.**

An Automatic Vehicle Tracking System (VTS) operates in conjunction with a Control Station. It helps to track and provide real time location information on the vehicle in which the Unit is installed. The data exchange with the Unit takes place using an integrated GSM communication. The Unit features an advanced electronic design with embedded software equipping it with several user-friendly operational features.

This system locates the Vehicle on the earth by the use of GPS and sends the co-ordinates (Longitude & Latitude), Time and Vehicle speed to the owner of the vehicle using GSM Modem. (GPS+GSM+Microcontroller)

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### GPS & GSM Based Car Security System.

Easy to find the stolen Car. Global Positioning System (GPS) has been used in various commercial applications including transportation, navigation and vehicle position tracking, which when coupled with GSM mobile phone technology, the technology can help locate stolen vehicle and retrieval process. (GPS+GSM+Microcontroller)

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## **GSM Based Irrigation Control System**

This project is to control the electrical Irrigation water pump remotely by the use of SMS messages. This also can send the sms alerts back to user about the electrical power status change.



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