

GSM AND GPS BASED VEHICLE TRACKING SYSTEM

AIM:

Design and development of GSM and GPS based vehicle tracking system.

PURPOSE:

Now a day's transportation is very primary necessity of all countries. Daily there are millions of vehicles travelling across the globe. Tracking of vehicles on google maps is very important. Vehicle tracking application helps of cab services, transport departments, public transport, goods transports...etc. Here we proposed GSM and GPS based vehicle tracking system.

DESCRIPTION:

This project includes GSM (Sim800C) module, which is connected to Arduino through UART. GPS module connected to Arduino through UART interface. Two pin button connected to Arduino digital pin.

WORKING:

Arduino continuously GPS data from GPS module. Arduino sends tracking details to register mobile number in three ways. In first way – Arduino sends GPS location data in constant time interval like 1 minute. In second way – Arduino sends GPS location data when user sends notification SMS to Arduino. In third way – Arduino sends GPS location data when driver press button. In all three ways SMS will be send to mobile number and SMS contains Google maps assistance. Every time latitude and longitude information displayed on LCD.

TECHNICAL SPECIFICATIONS

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
GSM	:	SIM800C
GPS	:	NEO-6M
Button	:	2 pin leaded
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

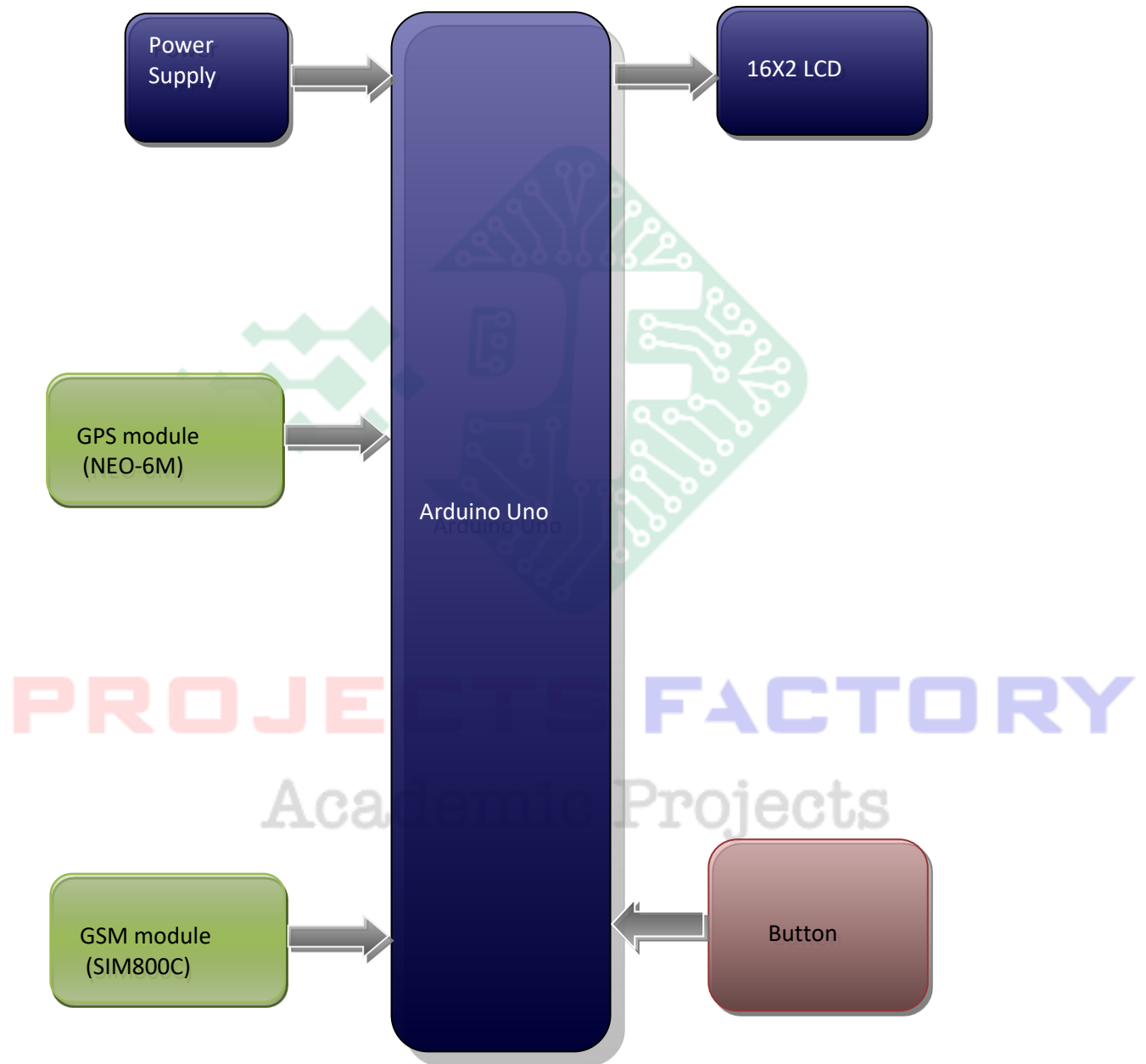
Arduino IDE

Proteus based circuit diagram

APPLICATIONS:

- Transport Application
- Tracking Application
- Bus Tracking
- Bike Tracking

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered GSM (SIM800C) module interfacing
- GPS (NEO-6M) module interfacing

PROJECTS FACTORY
Academic Projects