AUTOMOBILE THEFT IDENTIFICATION USING GSM GPS

AIM:

Design and Development of Automobile theft identification using GSM GPS.

PURPOSE:

Now a day theft of vehicle is major problem. After theft of vehicle it is very difficult to find, even police involved. Prevention of vehicle before theft is very necessary. Here we propose system like automobile theft identification using GSM GPS. While theft breaking of doors or any parts can be identified by vibration sensor. Also it won't allow ignition key when it was in theft mode. We can keep vehicle in theft mode by sending SMS.

DESCRIPTION:

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

WORKING:

In this project user can send keep vehicle in theft mode by sending SMS command like *theft#. When vehicle is in theft mode it will monitor vibration sensor and ignition key. If vibration activated when vehicle is in theft mode then it will send SMS. If ignition key activates when vehicle is in theft mode then it will send SMS. If user wants to start vehicle with ignition then he has to send *theft_release# command to release from theft mode to normal mode. All these information displayed on LCD. All SMS we will get GPS location to tack in Google maps. Buzzer will ON when vibration ON.

TECHNICAL SPECIFICATIONS:

HARDWARE:

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

SOFTWARE:

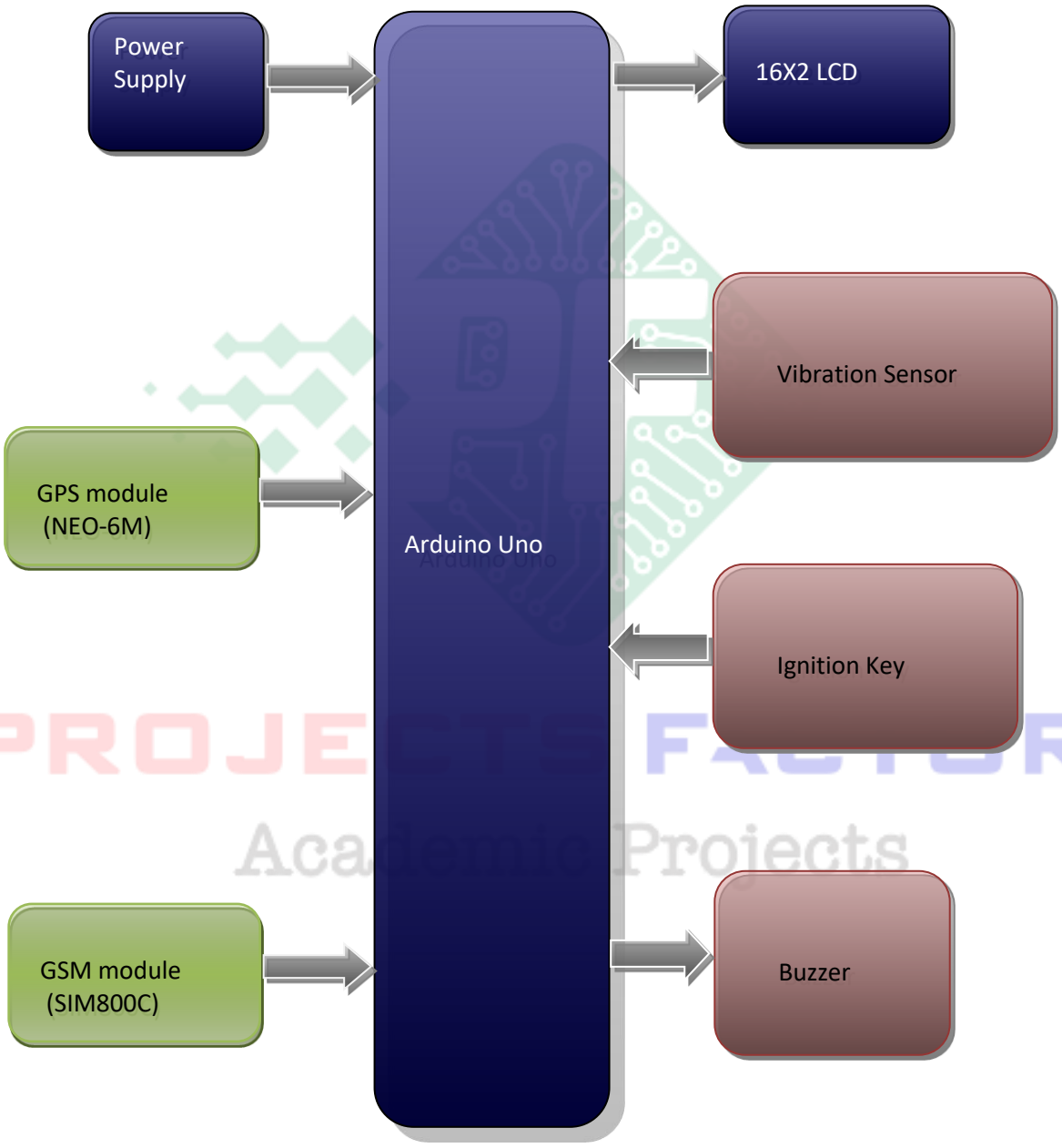
Arduino IDE

Proteus based circuit diagram

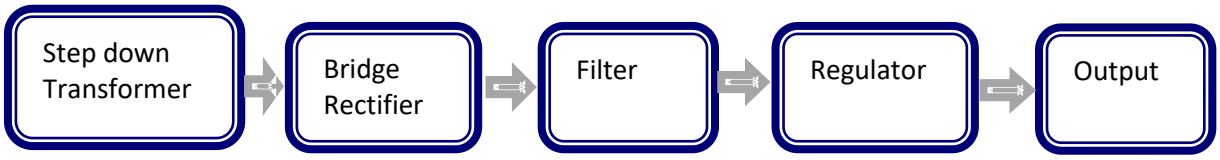
APPLICATIONS:

- Vehicle Tracking
- Transport
- Fleet management
- Cab service
- Public transport vehicle security

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

- We have covered GSM (SIM800C) module interfacing
- GPS (NEO-6M) module interfacing
- Vibration Sensor, Ignition Key and Button Interfacing