

## **GSM GPS SOLDIER TRACKING WITH GOOGLE MAPS**

### **AIM:**

Design and Development of GSM GPS soldier tracking with Google maps.

### **PURPOSE:**

Soldiers are working and traveling in remote places. Especially in war times soldiers has to travel in different places. But sometimes they missed locations and military has to track them to guide. Here we propose system like GSM GPS soldier tracking with Google maps. Using this projects soldier can intimate his location when he wants. Also at any point of time military can know particular soldier position when they sent request SMS.

### **DESCRIPTION:**

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

### **WORKING:**

Arduino reads button status continuously. When soldier wants to know his location to military then he has to press button. Then SMS will be sending to registered mobile number. SMS contains soldier location details along with google maps. If any time military wants to know particular soldier location then they can send request SMS to soldier. Then system automatically responds and sends location details in SMS. Also for every time interval (like 30 sec) it sends location details to military. In these three ways soldier tracking can monitor by military.

## 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

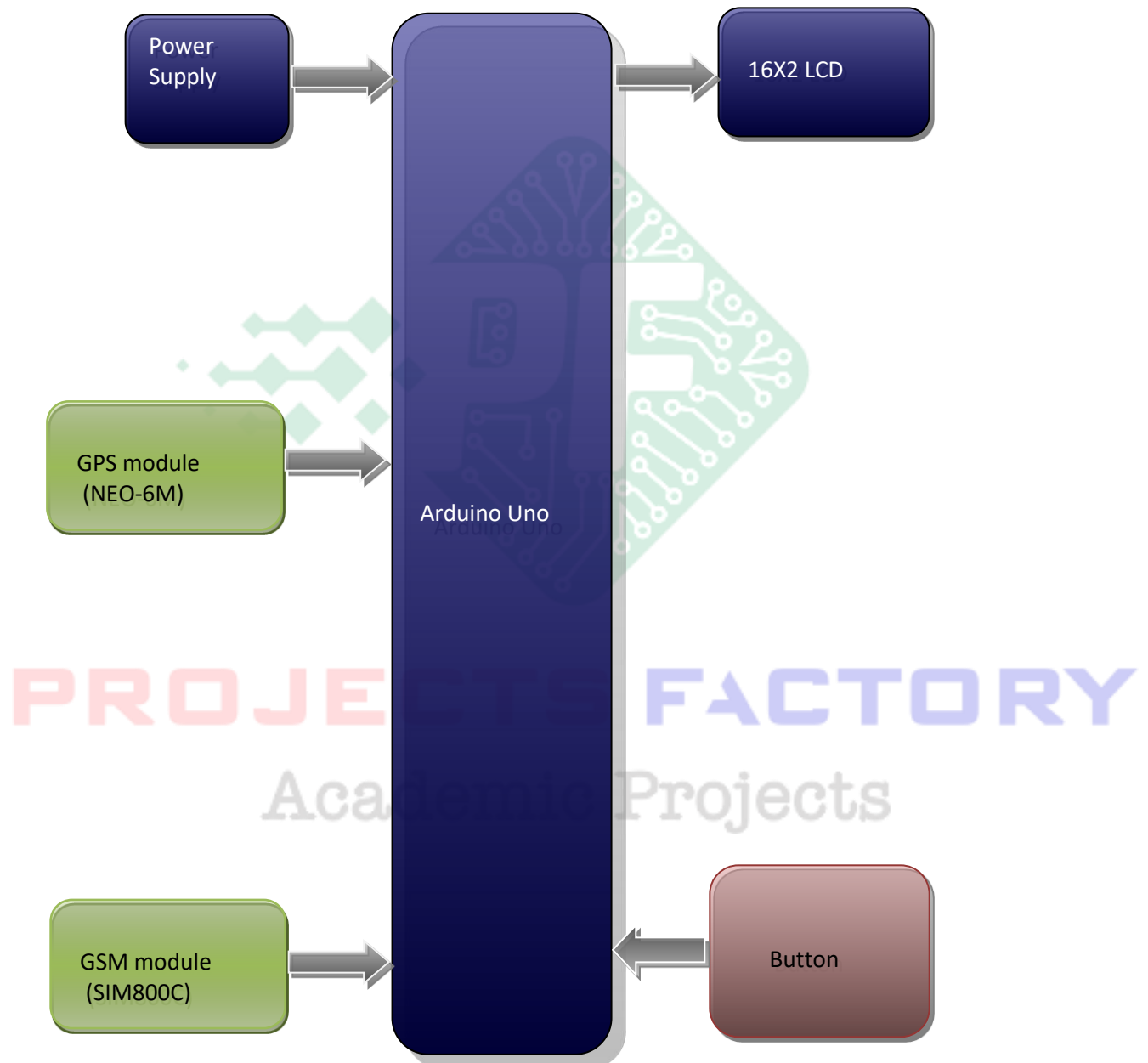
### SOFTWARE:

Arduino IDE  
Proteus based circuit diagram

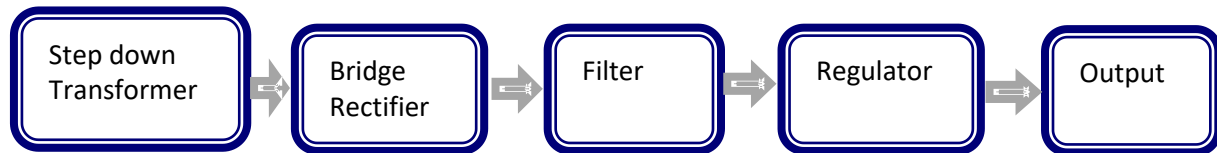
### APPLICATIONS:

- Military Application
- Navy Application
- Tracking Application

**BLOCK DIAGRAM:**



## POWER SUPPLY BLOCKDIAGRAM:



## INTERFACES COVERED:

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

**PROJECTS FACTORY**  
Academic Projects