GSM GPS BASED WILDLIFE ANIMAL TRACKING SYSTEM

AIM:

Design and Development of GSM GPS based wildlife animal tracking system.

PURPOSE:

Tracking of animal is important for everyone who has animals. Few animals are missing while they are going to outside for eating. Sometimes accident happens to animals in forest roads. There are no tracking devices for animals. In order to provide tracking of animals here we propose system like GSM GPS based wildlife animal tracking system. Using this system we can track animals in three ways.

DESCRIPTION:

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

WORKING:

This system can be installed on neck on animals. Here we can track animals in three ways. In first way – when animal making sound then it will be identified by MIC and SMS will send to registered mobile number. In second way – for every fixed time interval (like 30 sec) SMS will send to registered mobile number. In third way – by sending request SMS then SMS will send. SMS contains Google maps location. All this information displayed on 16X2 LCD.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
GSM	:	SIM800C
GPS	:	NEO-6M
Sound Sensor	:	Condenser MIC
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

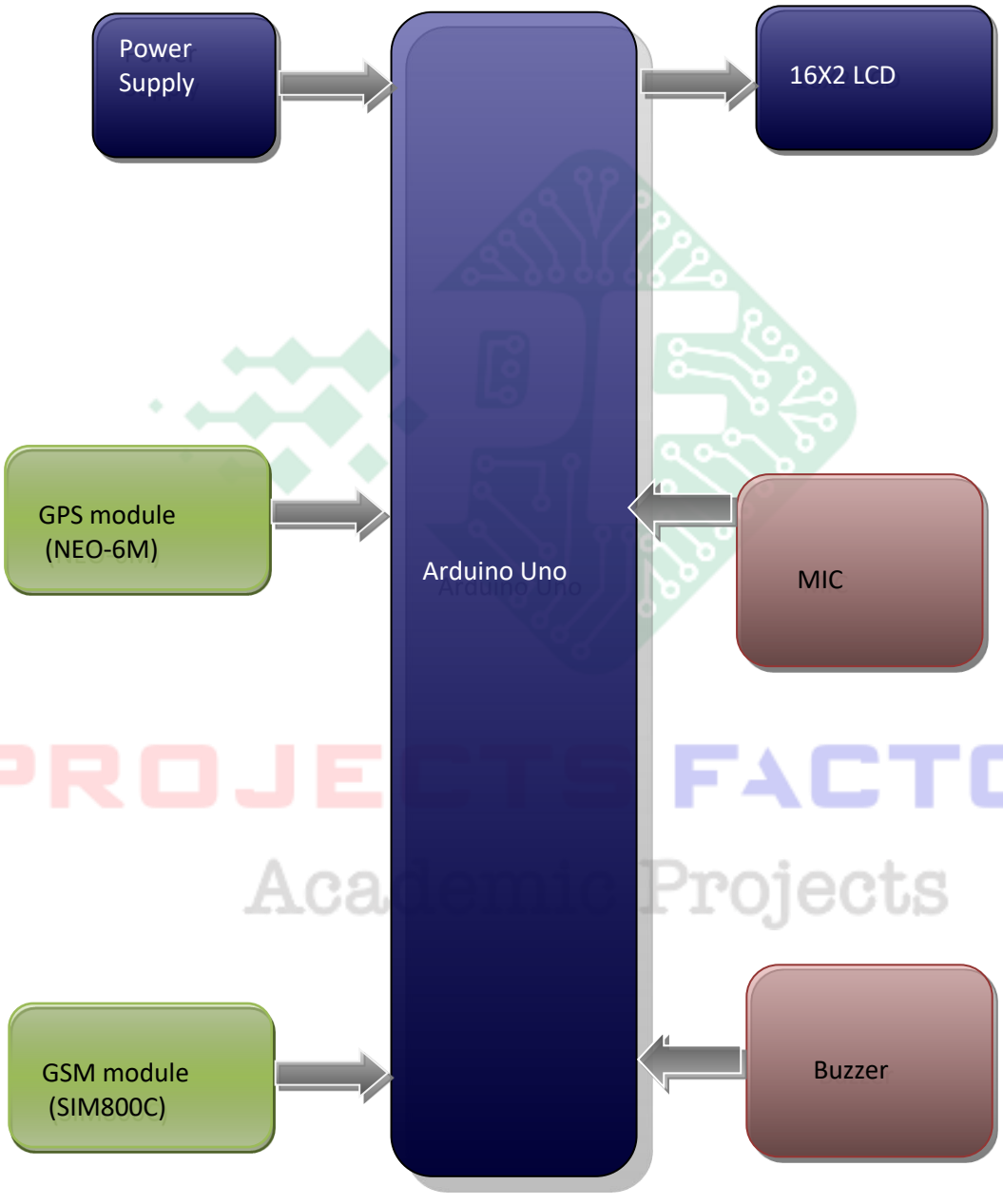
Arduino IDE

Proteus based circuit diagram

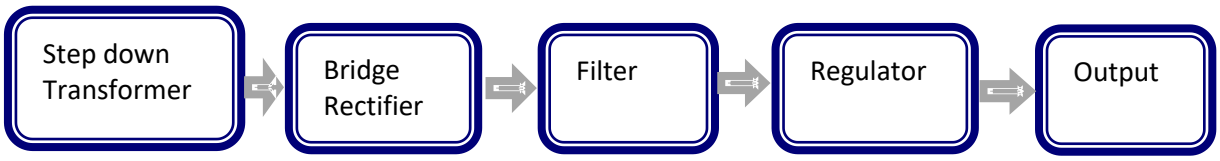
APPLICATIONS:

- Animal Tracking Application
- Vehicle Tracking Application
- Asset Tracking Application

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

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