PROJECTS FACTORY

Academic Projects

GSM GPS BASED AMBULANCE TRACKING SYSTEM

AIM:

Design and Development of GSM GPS based ambulance tracking system.

PURPOSE:

Ambulances plays major role in emergency conditions. In medical world there is a word "Golden hour". Means in any emergency cases patient should come to hospital as soon as possible without delaying. Even 10 minutes of delay causes more problems. General ambulances don't have any smart systems. Adding some advancement to ambulance will bring extra facilities to patients. Here we propose GSM GPS based ambulance tracking system. Using this system we can track ambulance immediately. Also it

has some extra features.

DESCRIPTION:

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

WORKING:

This system can be installed in ambulance. It sends GPS location to registered mobile number for every time interval like 60-120 seconds. If anyone wants to know ambulance location then they can get location by sending request SMS. Also this system contains three buttons to intimate three kinds of necessities. After taking patient into ambulance based on needs they can inform to hospital by pressing buttons. First button for need blood. Second button for need oxygen. Third button for need ventilator. Using these keys we can intimate to hospital. We can track ambulance by sending request SMS.

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TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller : Arduino Uno

Crystal : 16 MHz

LCD : 16X2 LCD

GSM : SIM800C

GPS : NEO-6M

Switch : Two pin button

Power Source : 12v 2 amp Adaptor

SOFTWARE:

Arduino IDE

Proteus based circuit diagram

APPLICATIONS:

Medical Services

Smart Ambulance

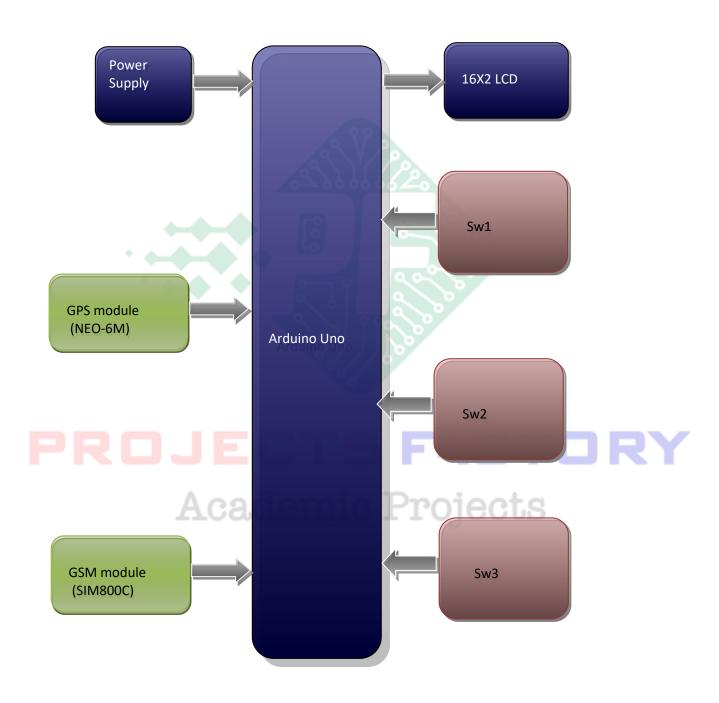
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BLOCK DIAGRAM:

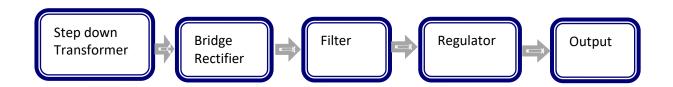


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POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

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

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