

Women Safety Device System Using GSM and GPS

<https://www.youtube.com/watch?v=oVAJLZqeCWQ>

The project aims in designing an intelligent security system for women. The system is capable of tracking the location of the women when the button presses. The system sends alerts to the predefined numbers in the case of emergency.

The GPS is the acronym for Global positioning system. This GPS receiver is capable of identifying the location in which it was present in the form of latitude and longitudes. This information is very useful and can be processed for alerting the boat drivers. The GPS gives the data received from the satellites. For this information the GPS communicates with at least three satellites in the space.

The project was designed an Arduino UNO based women safety device. GPS, GSM, Buzzer and panic switch is interfaced to the Arduino UNO microcontroller. When the women press the panic button, it will activate the buzzer for alerts and also sending the alert message along with location details to the predefine mobile number though GSM. The status of the project will display on LCD. To achieve this task Arduino loaded program written in embedded C language.

The main objectives of the project are:

- Develop a smart women security system.
- In case of emergency intimation can be sent to predefined numbers.
- Using Arduino microcontroller to achieve this task.
- GPS based location tracking.

- GSM based SMS alerts.

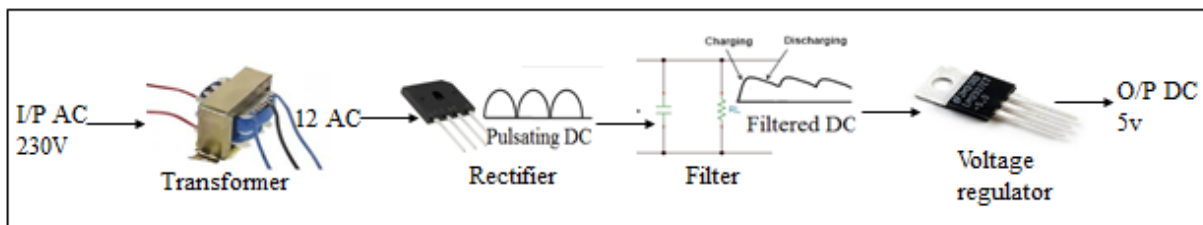
The main building blocks of the project are:

- Adapter power supply.
- Arduino UNO.
- Panic switch.
- GPS.
- GSM.
- Buzzer.
- LCD display.

Software's used:

1. Arduino IDE for compiling and dumping code into Microcontroller
2. Express SCH for Circuit design.

Regulated Power Supply:



Block diagram:

