Electric shock Glove

https://www.youtube.com/watch?v=Fl1at3w0y2s

The project aims in designing an electric shock glove which provides the intelligent security for women. The system is capable of tracking the location of the women continuously. The system sends alert message to the predefined numbers in case of emergency. The system provides the shock in 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 GSM modem provides the communication mechanism between the user and the microcontroller system by means of SMS messages. It is capable of receiving a set of command instructions in the form of Short message service and performs the necessary actions. We will be using a dedicated modem at the receiver module i.e. and send the commands using SMS service as per the required actions.

The main controller of this project is ARDUINO UNO. If force is applied on the women, the system generates shock. GPS Receiver is used to continuously track the location of the women; the system sends SMS alerts to the predefined numbers. Whenever panic switch is pressed the location of the women goes to the predefined numbers through GSM.

The main objectives of the project are:

- Women location can be traced easily using GPS based positioning system.
- Sends alerts in the form of SMS message to the predefined numbers.
- Generating shock in case of emergency.

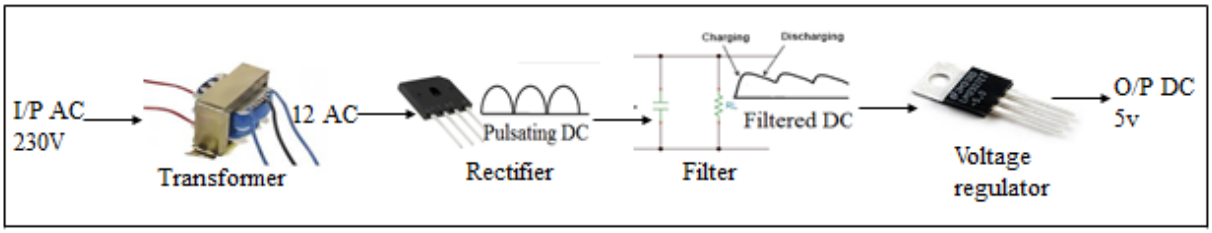
The main building blocks of the project are:

- Adapter Power Supply.
- Arduino uno.
- Shock generator.
- GSM modem.
- GPS Receiver.
- Panic Switch.

Software's used:

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

Regulated Power Supply:



Block diagram:

Block diagram