

Construction of Intelligent mobile phone with GPS enabled features

The project aims in designing and construction of an intelligent mobile phone with GPS enabled features like tracking and speed detection. In the modern days human beings life style is fully occupied with the terms like technology and innovation. We all know the revolutions the mobile technology has brought into our life. In an average every 9 out of 10 are carrying a mobile phone and even the illiterate persons have greater awareness on the operation of this mobile phones. So instead of making these mobile phones for calling and messaging purpose we can add few features like enabling the GPS and providing the facility for tracking etc.,

The internal architecture of this mobile phone consists of a GSM modem, which is capable of carrying a SIM card, Global Positioning System, Programmable on board computer. The on board computer is what we call as a microcontroller is programmed using Embedded C language which consists of a sequence of set of instructions to control different other modules in the project.

GPS is the acronym for global positioning system which receives the information from the satellites and provides the same to the controller. The GPS provides us the data like location, time, and speed. The controller accepts these data in a sequence of steps as per the instruction set which we provide to the controller.

The features of the project are:

1. GPS enabled tracking.
2. Automatic speed alert.

The project provides the following learning's:

1. GPS technology.
2. GSM modem working.
3. Embedded C programming.
4. PCB design.

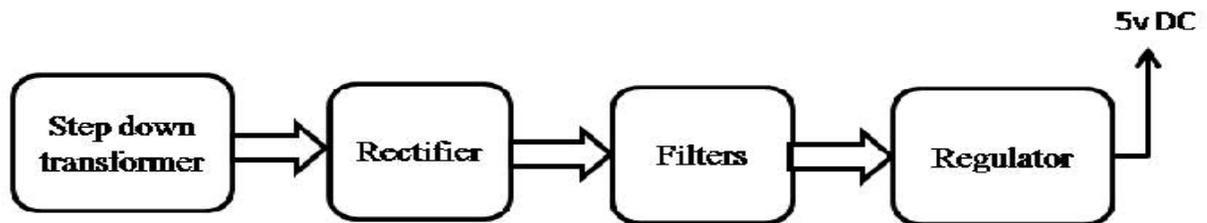
The major building blocks of this project are:

1. Regulated power supply.
2. GPS receiver.
3. GSM modem.
4. Microcontroller.
5. Reset.
6. LED indicators.
7. Crystal oscillator.

Software's used:

1. PIC-C compiler for Embedded C programming.
2. PIC kit 2 programmer for dumping code into Micro controller.
3. Express SCH for Circuit design.
4. Proteus for hardware simulation.

Regulated Power Supply:



Block diagram:

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