Fire Alerting System Using Arduino UNO

The main aim of this project is to design a fire detection and alerting system using Arduino and GSM.

This project makes a use of Arduino uno microcontroller, main controlling device of the project.Fire sensor is used to detect the flame.This system consists of GSM technology for sending the alert SMS and activate the buzzer if the system detects fire.The status of the project will display on LCD module.

This project makes use of an onboard computer, which is commonly termed as micro controller. It acts as heart of the project. This onboard computer can efficiently communicate with the output and input modules which are being used. The controller is provided with some internal memory to hold the code. This memory is used to dump some set of assembly instructions into the controller. And the functioning of the controller is dependent on these assembly instructions.

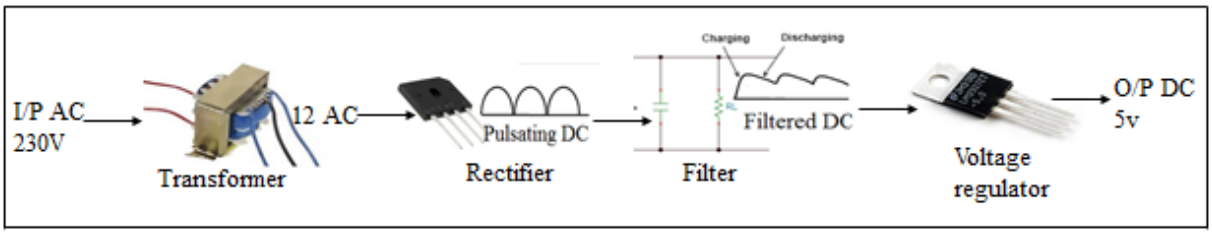
The main building blocks of the project are:

- Power Supply.
- ARDUINO UNO Microcontroller.
- Fire sensor.
- GSM.
- Buzzer.
- LCD display.

Software's used:

- Arduino IDE for Embedded C programming.
- Express SCH for Circuit design.

Regulated power supply:



Block diagram:

Fire and Motion Alerting System Using Arduino UNO