

Smart Home using GSM, Bluetooth and Android

ajay_bhargav, Thu May 01 2014, 02:30 am

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This project demonstrates a great concept of Home automation using a Smart Home Device which can control things automatically by taking decisions based on sensor network and external events or manual control using your phone over Bluetooth or GSM. Which means if you are inside the house you can use You can control your appliances using bluetooth when outside use your GSM phone (over SMS).

This project uses AVR controller ATmega328 running Arduino firmware. There are a number of sensors connected to the controller some on GPIOs and some via Analog ports. Here is a short list of sensors:

1. Temperature Sensor (LM35)
2. PIR Sensor
3. Light Sensor (LDR)
4. GAS Sensor

Wireless modules used in this project:

1. SIM300 GSM Module (SIM900 can also be used)
2. HC-05 Bluetooth Module

There is also a provision for controlling 4 AC appliances. One LCD is also connected to show real-time status of all the sensors.

This project gives a good hands on practice on AVR controller and Arduino firmware programming. With various communication options one can get good experience on wireless communication. Further more there are endless possibilities of expanding this project. So you really need to turn your brains on and think of what more you can do with this.

Project also includes complete documentation including Synopsis, Project report and final presentation. But don't get carried away with these goodies. Learn and Build this project so it can benefit you in future

I really want to thank Gaurav Khadasane once again for submitting this wonderful project and bringing lot of things together to learn in a single project.

Go to download section to download this project: [Smart Home using GSM, Bluetooth and Android](#)

Finally the working Demo:

