Smart Home Current status update

October 12 2012

TODD

 I'm waiting for my new current sensors to arrive. Spent some time debugging processor issues, where the relays activating would drop power to the microcontroller, which would force a reset. I think I have fixed it finally, the power and ground are both filtered now, to prevent fast changes in power.

DARIO BOSNJAK

I was able to figure out the necessary power that I will need to use to power on both the arduino MCU and the Wi-Fi shield. I will need about 9V and since arduino supports up to 20 I will be able to use power from tod's power supply. I have been able to gather the necessary information from the Moisture sensor and display it on the web page I have not yet started on utilizing the values to determine the necessary moisture level that will be responsible for triggering on the relay. Next I will work on getting the status of day, if it's dark or light to make it also consider when to turn on the sprinklers. I don't want to have the sprinkler system be turned on when it's actually day. Arduino webserver is will sometimes break if too many requests are sent too fast. But the page can be accessed between 4-10 seconds depending if a refresh is utilized or if a command to turn on something is utilized. If we sent it a command it will execute a lot faster since it does not need to know all the other information about the rest of the sensors.