

## **Smart Home Current Status update November 15 2012**

### **Dario Bosnjak**

Currently I have fixed some bugs in the server code on the Arduino where it is only allowing up to 4 current values to be returned for the needed plugs that are being monitored. Another feature I have added is the support for the sprinkler system and I was able to successfully monitor the current state of the light sensor and also the current state of the moisture sensor, only some minor tweaking that has to be done in order to have the sensor triggered on the desired moisture of ground. I have added current state of the laser trip wire that Christopher has designed, and also of the motion sensor. His design is based on sending me 5v output or 0 depending on the state that the sensors are currently on. I am able to successfully monitor those states and print them over HTML for the Server to cat out and display on the more user friendly webpage.

I am still having some issues with limiting the server of closing the connection and re-opening which causes it to send the same set of commands to the arduion MCU controlling the relays to turn on the plugs and to monitor the current, and at this state I am confident that it's something that I won't be able to prevent and will have to work around in order to get the desired results back from that Arduino.

Currently I am still fixing some bugs in the code and also finishing up the relay setup that will be controlling my sprinkler system based on the information gathered from the sensor values.

I am also having in mind a security camera monitoring system that will be working over TCPIP interface but will be triggered from arduino. It's an add on that depending on how much time I have will be added at the end, for now it's just an idea.

### **TODD**

I am still preparing documentation and working on the final report for CS4710. I'm swamped with other work from other classes at the moment.

### **LEVI**

### **CHRISTOPHER**