

MEMORANDUM

TO: Professor Healy
FROM: *Zak Rowland*
DATE: 2-20-20
SUBJECT: "Weekly Status Memo"

Problems

Up until now, we have been testing the non-WiFi related components with the Arduino Uno since everyone has one. So, we had some difficulty porting the modules over from the Arduino Uno to the ESP32. However, it turns out that I simply had to pinout comments wrong for the 4021 shift register in the code. Otherwise, we don't have any glaring issues.

Progress

Over the weekend I worked on the website functionality including allowing only a single client to be in control of the server at a time. This week we worked on integrating the separate modules together onto the ESP32. I also soldered headers to the ESP32 so we can easily interface with the pins. After getting the pinouts correct, the ESP32 is confirmed to work with the motion sensor and LED module. Beto had to leave early, but he finished up his code for the RGB LEDs.

Discussion

We need to discuss our plans for the housing. James said he and his dad, who is a carpenter, could build the housing, however Hayden wishes to have one 3D printed instead.

Next steps

Hayden and I will be testing the RGB LED circuit with the ESP32 tomorrow. After that, it is a matter of adding that code to the master file. I would also like the website to be more user friendly so I may add functionality to it, however it functions as needed for the project.