

MEMORANDUM

TO: Professor Healy
FROM: *Zak Rowland*
DATE: 1-23-20
SUBJECT: "Weekly Status Memo"

Problems

We don't have any major problems at the time, however there are a couple minor things to consider. One issue that we didn't consider was the time it will take to solder the components together for the final prototype. However, we are doing great in terms of progress and the schedule, so this isn't something to worry about. Another issue is that James is unsure how long it will take before the website is working.

Progress

This week, Hayden and I continued testing the infrared sensors with the shift register. The reason it wasn't working as intended last weekend was because some of the pins I was trying to use were reserved. The included ShiftIn function was also tying the MSB and LSB of the data together, so after using a different ShiftIn function, the sensors and shift register functions as intended. James continued work on the localhost site and was able to get the status of the rooms to display and update in real-time on the website itself. Beto began setting up code for interfacing the motion sensors with the LEDs.

Discussion

We need to discuss the best way to integrate all the modules onto protoboards. We are getting to a point where we need to start interfacing the different modules with each other, and a permanent setup should be considered.

Next steps

Next week, we plan to integrate the motion sensors and shift register module with the motion LEDs and shift register module. These modules function as intended on their own, so integrating them should be trivial. Depending on how much progress James makes on the website, we may have to shift most of our attention to helping him.