# Weekly Status Report 10

**Dates: 4/18/2018 - 4/27/2018**
**Group Number: sddec18-02**
**Project Title: Steam Heat Controller Retrofit**
**Client/Advisor: Lee Harker**

**Team Members - Role**
Sarah Coffey - Reporting Lead
Ken Wendt - Webmaster
Liz Wickham-Kolstad - Design Lead
Jevay Aggarwal - Technical Lead
Joe Filbert - Client Lead
Thomas Devens - Planning Lead

## Summary

The software team finished a rough prototype of the thermostat using the WiFi Feather board, alphanumeric display, and push buttons. Communication between the thermostat and the Raspberry Pi is functional. Additionally, further tests were run on the thermostat circuit to determine battery life; using the shut-off circuit, we have now proven that the battery life will be sufficient for the entire semester. The hardware team finalized some of the mounting and physical setup of the motor and Raspberry Pi connection.

## Pending Issues

Finish the prototypes next semester; this includes the case, PCB, and final integration tests.

## Going Forward

Not applicable over summer break.

## Individual Contributions

| Name | Contribution | Hours Worked | Total Hours |
|------|-------------|--------------|-------------|
| Sarah | Wrote the code to get the communication between the boards functional; helped continue battery testing and calculations. | 4 | 64.5 |
| Ken | Worked on finalizing our documentation and final presentation. | 4 | 62.5 |
| Liz | Updated Design with Pinouts and connections Battery Testing for Feather | 5 | 71 |

| Jevay | Helped finalize the WiFi board code for the end of the semester and worked on the presentation. | 4 | 57 |
| Joe | Worked on documentation and end of semester presentation, fabricated motor screws for mount and finished motor cable | 6 | 68 |
| Thomas | Worked on documentation and end of semester presentation<br>Looked into alternative authentication systems | 6 | 47 |

## Meeting with Client/Advisor

Not applicable.