

Bi-Weekly Status Report 2

Dates: 9/9/2018 - 9/22/2018

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

During the last two weeks, we encountered several technical challenges; some we were able to mitigate and solve, and other we were not. The hardware team has experienced some delay in ordering the PCB due to unavailability of resources. The software team discovered a design and planning error with the remote control unit (RCU) that greatly impacts the battery life. The hardware team has been working to help come up with a solution for the issue. The web team was able to create the database and begin working with it on the website within the last week; this team is now ahead of schedule.

Pending Issues

The RCU has to last an entire semester with a single charge; our team solved this problem last year through experimentation and calculation with a combination of microcontroller choice, software capabilities, and battery. We discovered this week that those calculations were incorrect. We are now working to find a solution that will work. The current solution needs approval from our faculty advisor. We also need to get the PCBs created as soon as possible to stay on track for the rest of the semester.

Going Forward

We will be focusing on getting our presentation for the PIRM complete this week, and through the next two weeks, our main priority will be finding the solution to the RCU battery life issue. We will also be channeling efforts into completing the PCBs.

Individual Contributions

Name	Contribution	Hours Worked	Total Hours
Sarah	Helped tie the server side code to the database and added functionality to route pages correctly from the server. Added correct data to the html pages and return certain variables from the html to the controllers.	12	27

