

**Team 1817: Spring Weekly Journal 1: 1/16-1/20**

The Team returned to campus for the semester. They organized weekly meetings with their advisor as well as weekly calls with their company contact, John Brower.

**Team 1817: Spring Weekly Journal 2: 1/21-1/27**

The Team began testing the components ordered in the previous semester. The RTD and thermopile testing circuits were built and tested utilizing a range of materials at a range of temperatures. At the conclusion of the week, possible adjustments were looked at and made.

**Team 1817: Spring Weekly Journal 3: 1/28-2/3**

The team continued testing the two technologies. Based off of the preliminary results found, other circuit configurations were researched and tested. The team also began writing code for use of a microcontroller to aide in testing.

**Team 1817: Spring Weekly Journal 4: 2/4-2/10**

The team continued testing the two technologies. The team also designed and created their page for the Demonstration Day Brochure and submitted it for approval by their advisor.

**Team 1817: Spring Weekly Journal 5: 2/11-2/17**

The team continued testing the two technologies and provided results to their sponsor. The team also began to familiarize themselves with Eagle for future PCB layout.

**Team 1817: Spring Weekly Journal 6: 2/18-2/24**

The team modified the testing rig for more consistent measurement. During the call, the team discussed error mitigation techniques with their sponsor. Finally the team worked to finalize the signal conditioning circuits for both technologies.

**Team 1817: Spring Weekly Journal 7: 2/25-3/3**

The team began work in preparation for their design review on 3/9. The team worked to finalize a full schematic for prototyping and continued testing the current design. Finally, any necessary forms for Demonstration day were completed.

**Team 1817: Spring Weekly Journal 8: 3/4-3/11**

The team had their design review on 3/9 and took the suggestions of Professor Chandy and Professor Bazzi into consideration for further adjustments. The team finalized a complete schematic for use on a PCB to be designed after Spring Break.

**Team 1817: Spring Weekly Journal 9: 3/12-3/17**

The team was not on campus as it was spring break.

**Team 1817: Spring Weekly Journal 10: 3/18-3/24**

The team returned to campus after Spring Break. The team began to work on PCB layout for the prototype as well as select the appropriate parts to assemble the prototypes.

**Team 1817: Spring Weekly Journal 11: 3/25-3/31**

The team provided a preliminary board layout to the sponsor. At the request of the sponsor, changes were made in regards to part sizes and routing. The team worked on revising the board layout to be sent the following week.

**Team 1817: Spring Weekly Journal 12: 4/1-4/7**

The team provided a revised layout to the sponsor. Suggestions were made for layout changes and the team revised the circuit over the week and sent again for approval. The team also worked to prepare for their final presentation on 4/13.

**Team 1817: Spring Weekly Journal 13: 4/8-4/15**

The team provided a finalized PCB layout to the sponsor. The board and all necessary parts were ordered. The final presentation was done on Friday 4/13 and the team began work in preparation for Demonstration Day. The team also scheduled a visit to Hubbell for 4/26.

**Team 1817: Spring Weekly Journal 14: 4/15-4/21**

The team received the boards and components in the afternoon on Thursday 4/19. On Friday, the team went to the Electronics Shop to utilize the microscopes and high precision soldering irons to assemble the boards. The code for the microcontroller was adjusted for the new microcontroller. The team prepared for Demonstration day through designing a demonstration setup and designed the poster.

**Team 1817: Spring Weekly Journal 15: 4/22-4/28**

The team worked on adjustments to the code for the prototype. Also, preparations for demonstration day were finalized. The team visited Hubbell on 4/26 and presented the prototype to the sponsor. The team worked to finish the final report as well as finalize all website content. Finally, Friday 4/27, the team showcased the project at Demonstration Day in Gampel Pavilion.

**Team 1817: Spring Weekly Journal 16: 4/29-5/4**

The team worked to finalize some roadblocks that were found in the code as well as finalize the final report for the conclusion of this project. The team also gathered all components to return to Hubbell for future improvements to the design.