

Update Log 11  
*Week of Apr 11, 2022 - Apr 17, 2022*

- **Ryan Aultman** (Storage-to-Output):
  - This week, we were supposed to run a full system test, but I found that my switching circuit stopped functioning over the weekend. In preparation for the new switches to come in, I helped Janet with validation of the current sensor and worked on our presentation.
- **Thomas Bergeron** (Digital Interface):
  - I was able to get the housing approved and funded by Dr. Lusher. I was unable to pick up the materials before the lab because of classes and I couldn't leave the lab because I needed to be ready for a full system run. I plan to come in on Tuesday with my red badge to make some cuts on the plywood and screw it together.
- **Janet Park** (Controls/Monitoring):
  - This week, I was able to complete validation for the three switching circuits located throughout the system by debugging each function and ensuring that the switches would trigger based on the appropriate conditions. Furthermore, Ryan and I were able to validate the current sensors, ensuring that the sensors were calibrated correctly, and the microcontroller was able to convert the analog value of the output current (and output voltage) to a digital reading via the ADC module.
- **Hunter Ruff** (Input-to-Storage):
  - I was able to finish the debugging of my MOSFET switch drivers and validate them with Janet's microcontroller and all three relays. This week, we are planning on doing a full start up including the front half of the system with full integration. Last week, we were able to do a startup with the second half of the integrated system successfully. I've also spliced the 208,1PH plug that we're using and have made it ready for startup.