

EE/CprE/SE 491 WEEKLY REPORT 05

3/12/2026-3/25/2026

Group number: 6

Project title: CyVital

Client &/Advisor: Dr. Meng Lu

Team Members/Role: Kate Endersby, Claire Haas, Max Tanruther*, Reza Choudhury*

○ **Weekly Summary**

The hardware team worked on testing the PCB fit with the case. The hardware team took inventory of the most recently ordered parts. The team worked on the design document for our next review.

○ **Past week accomplishments**

- Claire: Emailed ETG about missing parts. Got those ordered and received. Did another inventory of said parts. Made adjustments of PCB based on current case fit.
- Kate: Set up the scheduling for Instructor Review Meeting 2. Did an individual review of our previous design document, adding comments about what we will need to change, as well as began creating the slide deck.

○ **Pending issues**

- The nonautomatic play has a problem where it needs the user to tap the graph before it actually starts playing still

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Reza Choudhury	- More PyTest cases.	10	50
Claire Haas	- Missing parts reordered - PCB board adjustments - Created testing doc for voltage supply testing	10	54
Kate Endersby	- Scheduling set-up - Design document review	8	48
Max Tanruther			42

○ **Plans for the upcoming week**

- Claire: Assemble power supplies on PCB and test. Add the button and test reaction rate GUI. Assemble sensors on PCB.
- Max: Create cover. Talk with Lee Harper about aluminum cases and creating acrylic cover. Decided on just leaving cutouts in the acrylic cover to leave the button spot, test points/sockets, and mounting holes
- Kate: Assist Claire with button test and continue working on the design document review
- Reza: Help work on the design document review

○ **Summary of weekly advisor meeting**

During this session, the team focused on presenting the current PCB integration, marking a transition from component acquisition to physical assembly. The discussion focused on three primary areas: physical prototype assessment, design iteration, and technical roadmap. We demonstrated the current fitment of the PCB within our printed housing case, including identifying minor pieces that would need adjusting. With that in mind, we decided a significant portion of the meeting to brainstorm a third revision of the case, making some sketches of what we wished the next iteration of the design to look like. Lastly, now that we have the parts, we discussed the transition into the next phase of assembly and testing.