

## EE/CprE/SE 491 WEEKLY REPORT 04

2/27/2026 – 3/11/2026

Group number: 6

Project title: CyVital

Client &/Advisor: Dr. Meng Lu

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

### ○ Weekly Summary

Only some parts that were ordered have come in. The team has requested the missing parts and will start assembly after spring break. The 3D case is finished and needs to be checked. The software team worked on fixing bugs and cleaning up the code to be more readable. The team is working on changing the code to be more user-friendly and more representative of the open source community.

### ○ Past week accomplishments

- Claire: Took inventory of parts, prepped stencil, cleaned boards, started documentation of board, replaced MUX code
- Kate: Worked on the play issue
- Reza: Implemented open-source practices to be merged into the main repository. Introduced pytest code coverage cases. Removed unnecessary code and replaced it with functional methods that accomplish redundant tasks.
- Max: finished draft 1 of the board in cad then sliced and printed th case for initial fitment

### ○ Pending issues

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

### Individual contributions

| <u>NAME</u>    | <u>Individual Contributions</u>  | <u>Hours this week</u> | <u>HOURS cumulative</u> |
|----------------|--|------------------------|-------------------------|
| Reza Choudhury | <ul style="list-style-type: none"><li>- Open source branch completed</li><li>- PyTest code coverage cases</li><li>- Remove Spagetti Code</li></ul> | 20                     | 40                      |
| Claire Haas    | <ul style="list-style-type: none"><li>- Wrote code to replace MUX function</li><li>- Stencil preparation</li></ul>                                 | 16                     | 44                      |

|               |   |    |    |
|---------------|---|----|----|
|               | - Started assembly                                  |    |    |
| Kate Endersby | - Attempted to fix the play issue                   | 8  | 40 |
| Max Tanruther | - Finished case in cad<br>- Sliced and printed case | 14 | 42 |

○ **Comments and extended discussion**

- Figure out training for milling - if getting an aluminum case for PCB board

○ **Plans for the upcoming week**

- Assemble the PCBs
- Print 3D case

○ **Summary of weekly advisor meeting**

Dr. Lu is following up with ETG to inquire about getting an aluminum prototype milled for our boards. The team will work on practicing the final presentation with Dr. Lu as the board comes in and ways to make the presentation more impressive to the judges.