

EDD Week #5B Summary Report



Team Members Full Name: Matthew Jeide, Owen O'Rafferty

Project Name/Topic : Open STEM Project

Date: 2/2/26-2/6/26

Problem Statement: How can we design an affordable, gender-neutral STEM construction kit that promotes authentic inquiry-based learning and guardian-child co-play for children ages 6-13?

| Task | Name of Person (people responsible) | Expected due date | Materials needed | Problems Encountered | Checked By/Date Submitted |
|-------------------------------|--|----------------------|---------------------|---|---------------------------------|
| R1 Prototype | Matthew Jeide, Owen O'Rafferty | n/a | | Chassis development took longer than expected, axles not appropriately connecting | n/a |
| Element D | Matthew Jeide | 12/5/25 | PC | n/a | 2/2/26 |
| W4B: EDD Design-Expert Review | Matthew Jeide | 1/30/26 | PC | Needed to be updated to a new format | 2/5/26 |
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Include the **screenshot of the Gantt Chart** to help you complete your EDD Weekly Summary Report.

| EDD - GANTT CHART | | | | | | | | | | | | | | | | | | | |
|--|------------------------|--|---|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|--|--|
| WEEK | | | 1 | | | | | 22 | | | | | 23 | | | | | | |
| TASK | COMPLETE? | | 9 | 1/20 | 1/21 | 1/22 | 1/23 | 1/26 | 1/27 | 1/28 | 1/29 | 1/30 | 2/2 | 2/3 | 2/4 | 2/5 | 2/6 | | |
| W13: Element D2.0 Concept Development/Concept Sketching/F360 | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W13: Element C Inspections | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W14: Element D 7.0 & 8.0 Materials & Fabrication Research | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W14 Element D 6.0 Analysis and Selection | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W14: Element E: Application of STEM Principles | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W14 Element G 2.0 Building and Testing Plan | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W15/16: EDD Engineering Portfolio [Update/Inspection] | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| W15/16: EDD Element F 2.0 & 3.0 Design Review | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W15: Laser Cutter Tutorial | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W17: Element D Inspections | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W17: EDD Project Proposal Part #2 | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| SECOND SEMESTER | <div></div> | | | | | | | | | | | | | | | | | | |
| W1B: Resume [UPDATE] | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W1B: CareerSafe OSHA-10 | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| R1 Prototype | <div>IN PROGRESS</div> | | | | | | | | | | | | | | | | | | |
| W2B: EDD Gantt Chart [Update] | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W3B: Engineering [STEM] Interview 2026 | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W3B: EDD Element F 2.0 & 3.0 Design Review and Project Merit | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| W4B: EDD Design-Expert Review | <div>COMPLETE</div> | | | | | | | | | | | | | | | | | | |
| W4B: Element F [INSPECTION] | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| W4B: EDD G5.0 Mock-Up/Prototype | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| W4B: Element G 2.0 Building and Testing Plan | <div>MISSING</div> | | | | | | | | | | | | | | | | | | |
| W5B: Element H [INSPECTION] | <div>NOT STARTED</div> | | | | | | | | | | | | | | | | | | |

Summary: (What was accomplished this week and what is of immediate concern for the next two weeks?)

We have finally finished Element D, and we have successfully 3D printed a chassis for the rover--however, a problem has arisen with the axle diameter not fitting within the chassis. For the following weeks, we plan to finish Element E as we finish our prototype and find a solution for the chassis. A question arises if we should update the electrical framework to install motors with higher voltages and torque, capable of carrying more weight--but we currently wish to finish the chassis development before we continue with another fundamental revision.