

Team Thermocline

Weekly Status Report (Week 11)

Date: 11-14-25

Completed This Week:

Weekly Meeting (11-13-25)

Nik (Chief Analyst):

- Worked on main PCB board in KiCAD
- Talking through design ideas for the overall structure of the chamber

Alex (Program Lead):

- Setup Onshape
- Worked on individual subsystem report
- Brainstormed design ideas

Lexi (Project Engineer):

- Discussing design ideas
- Start drafting Subsystem Report
- Setup Onshape

Jacob (Chief Test Engineer):

- Familiarization with laser cutter as prospective prototyping machine.
- 3D modeling of parts.
- Setup Onshape

Joe (System Engineer):

- Ordered Fluid Transfer Tools
- Setup Onshape
- RFA Work (sections 1 and 2)

Next Week Plans:

- PDR RFA completion and submittal to Prof. McInnis.
- Individual Subsystem Design Reports and associated documents.
- Ongoing trade studies in designs.
- Further development with 3D model of parts.
- Further group familiarization with prototyping methods.
- Preparation for fluid recovery

Updated Status on Issues Previously Reported:



- Determined an online program (Onshape) for cross-functional collaboration on project 3D modeling.

Issues Needing Resolving:

- Establishing more meeting times (whether all members can attend or not; whether online or in-person) for the group to stay on schedule, discuss project ideas, and collaborate on existing tasks.
- Ensuring everyone is informed on what each member is tasked with, and what the other members accomplished towards the project to maintain updates.