Week of 01/27/25 - Week 2:

Team Level Progress:

- Deep Dive completed
- Build V2
    - Blocker: we would like to have more completed boards for assembly
    - Swapped to shorter rods and unthreaded spacers
        - Deployables should fit now, ready for burn wire testing
    - Further documenting assembly procedure
- Whole team did TVAC training, ready to perform testing in vacuum (still need LN2 training for temp testing)

Individual Progress:

- Crystal Scott -
    - Assembled prototype build 2 in the lab and identified issues & resolutions (pivot to unthreaded spacers, correct rod length)
    - Test fit new camera lens, XY boards in CAD & reported measurements to GNC
    - Reaction wheel mount CAD
    - TVAC training and Deep Dive slide preparation

- Liz Zhang -
    - Worked on troubleshooting assembly procedure
    - Working on finalizing full CAD assembly with all new hardware & boards
    - Began figuring out TVAC procedure
    - Ordering more copies of chassis

- Eric Grynberg -
    - Updated the Z+ board model in CAD
    - Deep Dive presentation prep and TVAC Testing Training
    - CAD Heat Sink Update
    - Machined parts needed for new assembly
    - Working on getting thermal update to know if we need heat straps.

- Clara Devaux
    - Worked on troubleshooting assembly procedure and documentation
    - Worked on third build, switched threaded spacers with unthreaded ones and cut rods.
        - Issues:
            - Spacers between heat sink and Jetson board are loose (9.7mm spacers and the distance between heat sink & board is 9.705mm + tol add up.
            - No need for nuts but need to make sure everything is stacked and locked together

        - Do we want to screw the Jetson to the heat sink or just use spacers (or both?)
    - TVAC procedure training

- Kiera Boucher
    - Tested helicoil fit
    - Deep dive and presentation
    - Worked on troubleshooting and assembly procedure
    - Worked with Clara on third build and noted issues
    - TVAC Procedure testing
    - CAD of 1U exolaunch exopod

- Keerthi Koganti -
    - TVAC procedure Training
    - Drafted up Deep Dive Presentation

Week of 01/20/25 - Week 2:

Team Level Progress:

- Build V1 took place, identified many issues including
    - Chassis has stripped screws.
    - Missing a couple of xy boards.
    - Threaded spacers might be bad, let's get non threaded spacers.

- We learned how to make Branches and add things to GitHub!
- We will be ready for Deep Dive next week.

Individual Progress:

- Crystal Scott -
    - Assembled a mock CubeSat prototype in the lab
    - Identified assembly errors and important considerations to improve future build times
    - Closed issue - ordered spacers
    - In process of designing finalized reaction wheel mount for 2.5 in HDD

- Liz Zhang -
    - Researched torque specifications for assembly
    - In process of finalizing full CAD assembly with all hardware
    - In process of figuring out TVAC test procedure

- Eric Grynberg -
    - Helped assemble cubesat and identified errors
    - Updated heat sink CAD + thermal straps.
    - Entered Quote in PCB Way for Hinges - TBD
    - Onboarded Keerthi to the project.

- Clara Devaux
    - Assisted assembling cubesat and identifying issues
    - Reading about vibe test procedure and mount

- Kiera Boucher
    - Assisted with prototype assembly
    - Determined how to use helical insert and break off tools
    - Restarted vibe test research to create a mounting attachment for 1u

- Keerthi Koganti -
    - Familiarized myself with the team and project
    - Took documentation for build process of first built of cubesat

Week of 01/13/25:

Team Level Progress:

- Familiarized new members with our progress & lab space
- Organized our team tasks into a spreadsheet that we will try to form issues in in GitHub
- Ordered standoffs in preparation for prototype build early next week
- Ordered new chassis to use for Vibe Test

Individual Progress:

- Crystal Scott -
    - Modified CAD assembly with adjusted board spacing to maximize available volume & eliminate interferences with current boards
    - Determined appropriate McMaster standoff lengths and implemented into CAD
    - Waiting for updated camera board before completely finalizing spacing

- Liz Zhang -
    - Modified chassis CAD to account for helicoil fasteners
    - Purchased new chassis and helicoil/insertion tools
    - Adjusted full assembly CAD to fix errors and swap new chassis parts
        - WIP

- Eric Grynberg -
    - Ran modal analysis on chassis to determine failure modes.
    - Made small modifications to heat sink to properly align
        - Will update CAD with these changes before early week build.
    - Met with Kaustubh to discuss hinge design, settled on using epoxy to secure pins.

- Clara Devaux
    - Started to look into vibe test fixture
    - Trying to get up to speed with the team
        - Will start working on assembly & test procedure once we start assembling prototype together beginning of next week

- Kiera Boucher
    - Spent time getting caught up with the CDR along with documentation provided by Benny regarding the vibe test.
    - Gathered data/dimensions to create a model for a mounting piece for the vibe test.
    - Familiarized myself with the CAD assembly and parts.