Mai Vo

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY **Atlanta, Georgia**
Bachelor of Science, Computer Engineering

- Honors Program; GPA: 3.52

WORK EXPERIENCE

SpaceX *Starbase, TX*
Starship Avionics Production
Avionics Engineer II *February 2025 – Present*
Avionics Test Engineer *July 2023 – February 2025*

- Led cross-functional initiative to migrate from legacy work instructions platform to next-gen feeder shop instructions system, partnering with software, production, engineering, and quality teams to implement automated workflows – reducing engineering time spent by 80%
- Owned full lifecycle of avionics test products from build to test – designed test rack, harnessing, test profile, designed test fixtures in NX, and developed software automated test profiles to test multiple devices at once during qualification and acceptance testing campaigns; delivered products on schedule
- Directed setup of Starbase test capabilities, managed procurement, contractor coordination, safety systems integration, and environmental chamber build and automation in Python (HALT/HASS, cryogenics, torch booth)
- Managed and trained team of technicians to operate test chambers – developed SOPs, training materials, ensuring operational readiness, deleting engineering personnel requirement
- Designing custom helium bomb and vacuum test chamber to test for leak within unit; performing simulations in Ansys, developing safety systems, ensuring test readiness
- Performed cable/harness thermal characterization: testing at cryo temps, cryo and vibration tests, torch, furnace; tests with respect to heatflux, temp, ethernet performance, insulation resistance, dielectric withstand
- Investigated feasibility of box-line production line addition including leak-testing, implementing auto-torque system; supports harness production with harness reviews, issue dispositions, hipot testing, supporting questions on the floor

Starship Crew & Cargo Mission Management
Mission Management Intern *February 2025 – Present*

- Partnered with NASA and internal stakeholders to review and implement mission requirements; modeled docking adapter clearance zones in NX, resolving clearance and ventilation issues and driving requirements
- Developed a simulation server driver to fake data testing on Starship testbed using Python; with EMI to choose and write a spectrum analyzer driver based on ranges and specs needed

NASA Goddard Space Flight Center *Greenbelt, MD*
Electrical Ground Support Equipment Pathways Intern *May 2021 – August 2021*

- Designed & developed harnessing for EGSE test rack, optimizing rack capability via LabVIEW to integrate with Ni-DAQmx, ensuring precise, accurate measurements and logging information for solar panel deployment and hingepot resistance measurements

LEADERSHIP & RESEARCH

Space Systems Design Lab – Glenn Lightsey Research Group
GT-2 Mission Manager *May 2022 – May 2023*

- Managed avionics, structures, and software teams to develop and launch a 1U cubesat; led integration testing (vibe, TVAC)
- Coordinated with launch providers JAXA/Spaceflight to ensure launch readiness and mission
- Directed avionics development, including acceptance tests and harness designs

GT-2 Avionics Lead *January 2021 – May 2022*

- Developed acceptance test procedures for PCBA modules; debugging issues during test; designed flatsat PCBA connection 7, 52-pin cubesat panels for ease of test
- Developed stress test & logging software using Python to test microcontroller for performance optimization and temperature during TVAC testing

SKILLS

Skills:	Project Management, Harnessing, CAD, Soldering, Circuit Design, Test Automation, Production
Programming:	Python, C#, C++, HTML, CSS, Javascript, Qt, Git, MySQL, R, IDL, VHDL
Software:	Altium, KiCad, NX, LabVIEW, Eagle, Linux, Ansys