Peter Ho

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Objective

I am a senior Aerospace Engineering student with hands-on experience in projects involving CAD software like Fusion 360 and SolidWorks to work on the construction of an autonomous rocket powered lander. I am seeking an entry-level position in aerospace for launch and space vehicles. My experience and completed courses equip me with valuable skills in Structural Analysis, Finite Element Analysis software, Machining, and Guidance Navigation Controls (GNC), making me a strong candidate to contribute to your team's success.

Education/Honors

- California State Polytechnic University of Pomona (Aerospace Engineering B.S. May 2024)
- GPA: 3.53/4.00
- CPP Dean's List (2019-2020, 2022-2023)
- CPP President's List (2020, 2023)

Coursework

- Intro to Aero Comp Methods (MATLAB)
- Aerospace Structural Mechanics 1 and 2
- Vector Statics and Dynamics
- Feedback Control Systems (Simulink)
- Thermodynamics and Heat Transfer
- Vibrations and Dynamics of Aero Systems
- Fundamentals of Systems Engineering
- Low-Speed and High-Speed Aerodynamics
- Materials Science and Engineering
- Wind Tunnel Testing Laboratory
- Rocket Propulsion
- Orbital Mechanics and Space Environment
- Computational Fluid Dynamics (CFD)
- Space Vehicle Dynamics and Controls (GNC)
- Elements of Avionics
- Space Vehicle Design Lab

Extracurricular and Professional Experience

Rocket Powered Lander Project Team **August 2021 - Present**

- Prepared the literary review of our project's research and budget among all the sub teams for Cal Poly Pomona's Project Hatchery in order to receive funding
- Constructed a subscale model of the lander's thrust vectoring system for testing of the control systems
- Used Fusion 360 to create a CAD model and conduct a finite element analysis of a test stand for use in a hot fire test and for my senior project
- Manufactured components of the test stand in Cal Poly Pomona's machine shop utilizing a manual mill
- Managed project inventory and distribution as the project's quartermaster

L'SPACE NASA Proposal Writing and Evaluation Experience Academy **May 2022 - August 2022**

- Completed the program with a certification of completion by writing a NASA new technology proposal for a modular active noise canceling system for drones and reviewing other competing proposals

Undergraduate Missiles, Ballistics, and Rocketry Association **September 2019 – November 2021**

- Successfully constructed, launched, and recovered a high-power model rocket for the National Association of Rocketry's Level One Certification Program

Skills

- Intermediate Microsoft Office Skills (Word, Excel, VBA Macro, and Powerpoint)
- CAD and Finite Element Analysis software (Solid Works, Autodesk, Fusion 360)
- Coding (MATLAB and Python)
- Basic 3D Printing operation (Ender 3, Cura, CraftBot)
- Basic Simulation Software (Amesim, Malto, OpenRocket)