Jason Le

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EDUCATION

University of Colorado Boulder **May 2022**
Bachelor of Science – Aerospace Engineering **GPA:3.9/4.0**

WORK EXPERIENCE

Systems Engineering Intern
March 2021 - Present
Colorado Space Grant Consortium
Boulder, CO

- Assisted in the development of a space mission to study the lunar surface using in-house engineered electronics, funded by NASA
- Conducted verification and validation testing for the in-house **accelerometer**, **magnetometer**, **thermopile**, and **capacitive** sensors
- Applied knowledge of spacecraft subsystems and dynamics to safely bring the electronics to the lunar surface by 2023
- Increased the sensitivity of the capacitive sensor by a factor of 3, increasing the scientific use cases

Client Representative
September 2018 - Present
University of Colorado Boulder Bursar's Office
Boulder, CO

- Researching 1098 T-forms, Financial Statements, Bank information while providing service to 30,000+ students regarding their tuition accounts and bank information.
- Utilized OnBase, Cisco, and CU-SIS systems to analyze student's accounts and cost classifications
- Manage keeping of deposits, refunds, and transaction made towards the university

Merchandise and Stocking Associate
June 2020 – August 2021
Walmart
Littleton, CO

- Efficiently process transaction in a busy and fast-paced retail environment
- Displays leadership qualities by managing 10+ people to meet the goals of the day such as, processing shipment, maintaining a clean sales floor, and replenishing and back stocking merchandise
- Point person appointed to maintain customer satisfaction throughout the store

RECENT PROJECTS

CROACS
September 2021 – Present
Astroscale
Denver, CO

- Developed attitude determination software to analyze space debris in low earth orbit using LiDAR
- Designed the code to predict the future attitude of space debris with 95% confidence with **MATLAB**
- Conducted verification and validation testing of the software using a 3-axis rotation stand
- Validate precision of servos and motors using a Kalman filter on rotation stand sensors

RC Surveillance Aircraft
January 2021 - Present

- Designed a RC aircraft from the ground up to circle a location designated by the user using **C++** and **Python**
- Wrote the autopilot software using a PID system on the 4 control surfaces for straight leveled and surveillance flight
- Analyzed flight software and characteristic by simulating PID system in **MATLAB/Simulink**

Finless Hobby Rocket
May 2021 - Present

- Developed a finless rocket up to 500 meters using a thruster gimbal control system with **C++**
- Created models and simulations to validate the rocket design using Monte Carlo simulations in **Python**
- Analyzed combination of filters like Kalman and Complementary filters for onboard sensors

SKILLS

Languages: MATLAB, Simulink, C++, Python, C, LaTeX
CAD: Solidworks, Altium
Software: STK, Excel, Word, PowerPoint
Manufacturing: 3D Printing, Laser Cutting

LEADERSHIP EXPERIENCE

Family Coordinator for Vietnamese Student Association (VSA)
January 2021 - Present

- Led a Vietnamese cultural club to provide community building for young Asian adults