

Josh Lando

Seattle, WA | j4lando@icloud.com | (972) 757-6883 | linkedin.com/in/j4lando | github.com/j4lando

Education

University of Washington, BS in Mathematics

Sept 2024 – June 2028

- GPA: 3.77/4.0, Dean's List
- Awards: Interdisciplinary Honors College, Purple & Gold Scholarship

Experience

Software & Payload Lead, Assistant Chief Engineer, Husky Satellite Lab

Sept 2024 – present

Leading the University Nanosatellite Program funded lunar navigation technology demonstrator

- Boothed at the 2025 Small Satellite Conference in Salt Lake City, Utah
- Wrote edge detection algorithm with FFT optimization in C++ and researched feature mapping
- Containerized the software build and test environment using Docker
- Wrote tier 1 and 3 requirements for requirements verification matrix
- Oversaw Gantt chart, led CONOPS, planned meetings, and monitored subsystem progress
- Prepared and present reviews: System Concept Review (SCR), System Requirements Review (SRR), and Preliminary Management Review (PMR)
- Founded payload subsystem, wrote paper exploring how camera parameters affect earth-tracker accuracy, and performed trade study on cameras, star-trackers, and GNSS receivers

Summer Intern, Husky Satellite Lab

June 2025 – Sept 2025

Paid internship to continue work as Software & Payload Lead

Marketing Lead, University of Washington Solar Decathlon

Sept 2024 – May 2025

Pioneered modular design to reduce design and permitting roadblocks for affordable housing in Seattle

- Presented in the finals of the BuildingsNEXT Student Design Competition in Boulder, CO
- Built website demo showcasing modular design approach

Backend Software Engineer, Applines Solutions

June 2023 – Sept 2024

Worked on SpeechPundint, an AI powered public speaking education platform

- Gave reports to teams in India and the U.S.
- Utilized python tools to detect, visualize, and then correct AI hallucinations in prosodic speech scoring
- Engineered achievement badge and rewards feature

Intern, gesture

Sept 2024 – June 2025

- Taught Professor Prakash how to use Perplexity Spaces
- Developed online calendar for the University of Washington's College Edge program
- Led small team to create a pre-production for gesture promotional video

Swim Instructor, Lifeguard, YMCA

June 2020 – Sept 2023

Projects

FOUND Open-Source Universal Navigation Determiner

- Uses planetary bodies in image frame to determine position in space

Stochastic Fairness

- Applies insights from Ethics in AI seminar (CSE 390) to increase model fairness

Skills

Languages: Python, C++, Swift, JavaScript, Java

Tools & Technologies: GitHub, Excel, QGIS, Cloud Compare, PIX4D, DJI Pilot, Emlid Flow, Ansys STK, LaTeX, Docker

Mathematics: Good understanding of differential equations, calculus, and linear algebra

Certifications: CPR/AED, First Aid, Lifeguard

Community Service

Dallas Chapter Media Coordinator, Climate Change Lobbying

June 2023 – June 2024

Led effort to publish letters to the editor advocating for green legislation

- Team published 40+ letters to the editor in *The Dallas Morning News* and *Fort Worth Star-Telegram*
- Personally published twice

Volunteer, For Love of the Lake

Jan 2020 – Sept 2024

Participated in monthly lake cleanups to remove trash and invasive species from White Rock Lake in Dallas, TX