Liam Johnson

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Education

University of Washington Seattle, WA
Bachelor of Science in Aerospace Engineering Sep 2024 – Jun 2027
Relevant Coursework: Aerodynamics, Propulsion Systems, Spacecraft Design, Control Systems, Machine Learning, Fluid Dynamics

GPA: 3.84/4.0

Technical Skills

Languages and Technologies: Python, MATLAB, C++, Java, SQL, TensorFlow, OpenCV

Tools and Frameworks: Git, Docker, AWS, SolidWorks, ANSYS, ROS

Projects

Autonomous Drone Delivery System | *Python, ROS, OpenCV*

- Developed an autonomous drone system for last-mile delivery in urban areas
- Implemented obstacle avoidance algorithms using LiDAR and computer vision
- Conducted field tests to validate system reliability and efficiency

Rocket Simulation Platform | *MATLAB, C++, SolidWorks*

- Built a simulation platform for rocket trajectory optimization
- Analyzed aerodynamic forces and propulsion systems for improved performance
- Presented findings at a student aerospace engineering conference

Satellite Image Analysis Tool | *Python, TensorFlow, GIS*

- Developed a tool to analyze satellite imagery for environmental monitoring
- Implemented machine learning models to detect deforestation and urban sprawl
- Deployed the tool as a web application for remote sensing applications

Research Experience

Research Assistant - Space Systems Lab Jan 2024 – May 2024
University of Washington *Seattle, WA*

- Researched advanced propulsion systems for small satellites
- Developed computational models to optimize fuel efficiency
- Collaborated with researchers to publish findings in a peer-reviewed journal

Work Experience

Aerospace Engineering Intern Jun 2022 – Aug 2023
Boeing *Seattle, WA*

- Worked on the design and testing of aircraft components
- Conducted stress analysis and optimization using ANSYS
- Collaborated with cross-functional teams to ensure compliance with safety standards

Robotics Intern May 2023 – Aug 2024
Blue Origin *Kent, WA*

- Assisted in the development of robotic systems for spacecraft assembly
- Conducted performance testing and debugging of robotic prototypes
- Presented findings to senior engineers and stakeholders