Andres Lu

Aerodynamics Engineer at Boeing | 777-9 Stability & Control

OBJECTIVE

Impact-driven aerospace engineer passionate about creating technologies that push boundaries and deliver real-world value. Experienced in rapid prototyping and hands-on development to bring bold ideas to life. Licensed private pilot and avid drone enthusiast with an enduring curiosity for everything that flies.

WORK EXPERIENCE

Aerodynamics Engineer | 777-9 Stability & Control (S&C)   *Jul 2023 - Present*

Boeing Commercial Airplanes | Everett, WA

- Conducting desktop analysis and piloted simulator testing to define certification test conditions and evaluate handling qualities for Part 25 aircraft. Supporting flight test plan development and onboard execution. Validating and verifying requirements in a config-controlled ecosystem.

Aerodynamics Stability and Control Intern   *May 2022 - Aug 2022*

Boeing Commercial Airplanes | Everett, WA

- Led piloted simulator tests with hardware-in-the-loop (HIL) on the Future Flight Deck team to support development of prototype control inceptor hardware.

Mechanical Engineering Intern   *May 2021 - Aug 2021*

Zipline | South San Francisco, CA

- Rapidly iterated through physical prototypes of ground systems to demonstrate docking and loading methods for a new autonomous delivery drone. Emphasized real-world results through hands-on testing of small scale and full scale prototypes. Served as PIC for Part 107 test operations.

Summer Intern   *Jun 2017 - Aug 2020*

FliteTest | Minerva, OH

- Landed my childhood dream job. Created new, one-off remote-controlled aircraft on a weekly basis to produce entertaining, inspiring, and educational content on YouTube with a talented team. Designed several airplane kits, some of which are still sold through the FliteTest store.

ACADEMIC & LEADERSHIP EXPERIENCE

Design/Build/Fly   *May 2020 - May 2023*

The Ohio State University | Columbus, OH

- **President (2022-2023)** - Led our team to a 6th place finish in 2023 competition. Fostered a collaborative and relentlessly determined team culture.
- **Treasurer (2020-2022)** - Helped lead our team to a 4th place finish in 2021 competition while managing finances and sponsorships.
- **Team Pilot (2020-2023)** - Lots of fun with a healthy dose of nerves. Brought vast knowledge base from 10+ years in model aviation. Heavily involved in the design, fabrication, and testing of our aircraft.

Undergraduate Research Assistant   *Jan 2022 - May 2023*

The Ohio State University | Columbus, OH

- Primary technical owner and PIC of all drones at LADDCS (Laboratory for Autonomy in Data-Driven and Complex Systems) supporting research on use of autonomous drones in wildfire operations. Identified and fixed issues with existing IR-imaging drone. Rapidly configured, built, and tested new drone with improved performance and reliability, from conception to flight within 1 month.

CONTACT

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EDUCATION

B.S. Aerospace Engineering with Robotics and Autonomous Systems Minor
The Ohio State University
Class of 2023, Graduated with Honors, Summa cum laude

SKILLS

Rapid Prototyping & Fabrication
3D Printing, Laser Cutting, Soldering, Composite Layups

CAD & Mechanical Design
SolidWorks, Siemens NX, Onshape, AutoCAD

Programming Languages & Tools
Python, MATLAB, C/C++, VS Code, Git, Linux

UAV Systems & Tools
Pixhawk/PX4, QGroundControl, BetaFlight

CERTIFICATES

FAA Private Pilot Certificate
Sep 2024

FAA Part 107 Remote Pilot Certificate
Jul 2021

SolidWorks CSWA (Associate)
Feb 2021

HOBBIES

Flying, Hiking/Backpacking, Mountaineering, Rock Climbing, Piano, Violin