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
Jul 2023 - Present

Boeing Commercial Airplanes | Everett, WA

> Conducting desktop analysis and piloted simulator testing to define certification test conditions. 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 and analyzed data on the Future Flight Deck team to support development and implementation of prototype 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