VICTORY ULASI

AEROSPACE ENGINEERING STUDENT

CONTACT

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PROFILE

I'm Victory Ulasi, an aerospace engineering student at UT Arlington with a hands-on approach to design and systems. I like to build projects alongside my coursework and am drawn to the intersection of mechanical systems, structural analysis, and controls. I'm actively working toward industry experience in aerospace engineering.

SKILLS

Private Pilot.
MATLAB.
SolidWorks.
SolidWorks Simulation.
3D Printing and Prototyping.
C/C++ Programming.
Git/Version control.
Electronics Troubleshooting and Soldering.

EXPERIENCE

The Home Depot — Dallas, TX

- Provided technical product guidance to 30+ customers per shift, using precise measurement and load estimation to improve purchase accuracy.
- Assisted contractors with material quantity calculations for structural projects.
- Developed strong understanding of construction materials and structural lumber grading.

EDUCATION

University Of Texas Arlington
Aerospace Engineering (2025-Current)

Chennault Aviation Academy
Private Pilot (2023-2025)

Sam Houston University
Computer Science (2021-2023)

PROJECTS

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Intro to Engineering design Final Project – MAE 1351

- Designed and 3D printed a fully automated ball-transfer mechanism controlled by an Arduino, capable of acquiring and delivering ping pong balls into a target cup from 6 feet away within 30 seconds.
- Integrated DC motors, drive wheels, and buck converters into a self-contained battery-powered system, managing power regulation and motor control through custom firmware.

Thrust Stand – Personal

- Designed and fabricated a motor thrust stand using a 10kg load cell, HX711 amplifier, and NUCLEO-F446RE, logging real-time force and current data via MATLAB.
- Intended for characterizing motor and propeller performance for drone diagnostics and performance validation.

F405 Drone Build – Personal

- Assembled a fully functional drone from components including ESCs, flight controller, and motors, performing all wiring and soldering.
- Configured flight parameters and PID tuning in Betaflight; thrust stand used for motor performance characterization and diagnostics.