NICHOLAS FOSTER

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EDUCATION

LETOURNEAU UNIVERSITY Longview, TX
BS Unmanned Aircraft Systems Expected May 2027
Cumulative GPA: 3.82/4.0 | President's List 2024-2025
Relevant Coursework: Computer Science I and II, UAS Flight Control Systems, Remotely Piloted Aircraft Operations

CERTIFICATIONS

FAA Private Pilot Certificate (ASEL) | FAA Part 107 sUAS Certificate

WORK EXPERIENCE

COMPOSITE PIPE TECHNOLOGY Kilgore, TX
Composite Technician Intern May - August 2024 & May - August 2026

- Developed a Python dashboard that matches scanned RFID pipe IDs with production system records to identify corresponding serial numbers and streamline shipment tracking
- Conducted destructive pressure testing on 12" through 24" composite pipe to verify integrity at 5X pressure rating
- Trained in HDPE and MaxDR fusing techniques and procedures

ALLIANCE ELECTRIC Longview, TX
Apprentice Electrician May - August 2025

- Interpreted residential and commercial electrical plans to assist with efficient layout and wiring of projects
- Communicated effectively with project managers, supervisors, and crew members to keep jobs safe and on schedule

UNIVERSITY PROJECTS

FENNEC:
FLIGHT EMULATION USING NEURAL NETWORKS FOR EVENT CHARACTERIZATION Jan 2026 - Present

- Analyzed and processed Pixhawk flight telemetry in Mission Planner to characterize sUAS flight events for a neural network based classification system
- Conducted flight testing and aircraft maintenance while developing safety procedures and documentation to improve senior design team operations

ROVER AUTOMATION Jan - May 2025

- Implemented a Pixhawk controller to remotely and autonomously control a ground rover
- Utilized QGroundControl to troubleshoot automation and path identification by tuning PID controller, calibrating sensors, and performing live test
- Programmed the rover to autonomously navigate a 300 foot path involving 720 degrees of cumulative heading changes

ACTIVITIES

LETU TECH FLYERS DRONE RACING TEAM
Founding member and Recruitment Lead Sep 2025 – Present

- Led outreach events that grew team membership by 50% in three months
- Competed nationally, demonstrating precise, manual control of a high speed system while maintaining situational awareness

ADDITIONAL

Technical Skills: Proficient in C++ and Python, Ardupilot, QGroundControl, Mission Planner
Awards: Texas FFA Lonestar Degree, LeTourneau University Presidential Scholarship