

Professional Experience

Lead Applications Engineer - Wilder Robotics (Oklahoma City)	May 2025 - Present
<ul style="list-style-type: none"> ■ Guided team of five to accomplish 30MM contract requirements ■ Provided interdisciplinary guidance to other teams (software, hardware, controls) to better meet customer objectives ■ Constructed test reports, procedures, and data analytic techniques. 	
Simulation Software Developer - Skydweller Aero (Oklahoma City)	Sep 2024 - Feb 2025
<ul style="list-style-type: none"> ■ Developed new features and solved issues with simulation software for Skydweller aircraft 	
Product Engineer - Downing USA (Oklahoma City)	Feb 2022 - Sep 2024
<ul style="list-style-type: none"> ■ Managed the entire scope of products and features. Requirements, design, FEA analysis, BOM, part sourcing, prototyping, design iteration, documentation & procedures, and sustainment & maintenance ■ SolidWorks PDM database administrator (created and optimized workflows) ■ Resident FDM & SLA 3D printing SME (PLA, PETG, PETG-CF) 	
Process Engineer - Tinker AFB (Midwest City, OK)	June 2021 - Feb 2022
<ul style="list-style-type: none"> ■ Lead F100 Process Engineer for assembly & disassembly of F100 engine ■ Improved processes, safety, regulation compliance, and administered training ■ Developed new tooling for engine overhaul processes 	
Engineering Intern - WorkSaver MHE (Shawnee, OK)	July 2020 - August 2020
<ul style="list-style-type: none"> ■ Designed products for material handling equipment & ensured safety compliance using FEA analysis ■ Worked with customers to ensure products met specifications and performed quality control ■ Researched and sourced various equipment and analyzed associated quotes 	
Engineering Intern - GEFCO (Enid, OK)	July 2019 - August 2019
<ul style="list-style-type: none"> ■ Added axillary structural hardware to DP3000 pump truck ■ Found qualified vendors for hydraulic pump filters & sourced new pneumatic valve control system 	
Contractor for Ledet's Welding (Midwest City, OK)	June 2018 - August 2018 & June 2017 - August 2017
<ul style="list-style-type: none"> ■ Created drawings & 3D models (SolidWorks) & worked as company rep ■ Operated a CNC plasma table, brake press, acetylene torch, and forklifts of varying sizes ■ Performed quality control and monitored tolerances for manufactured parts 	

Education

Georgia Institute of Technology	GPA 3.83
<ul style="list-style-type: none"> ■ Master of Science in Computer Science, Specialization in Computational Perception and Robotics ■ Relevant Coursework: AI, AI for Robotics, Game AI, Software Dev Process, Computer Vision, Human Computer Interaction, Cyber-physical Design 	Jan 2023 - Present
Oklahoma State University	GPA: 3.65
<ul style="list-style-type: none"> ■ Bachelors of Science in Aerospace Engineering & Mechanical Engineering 	May 2021

Skills

- **Languages:** Python, C++, C, MATLAB, C#, VBA, LabVIEW, Java, RobotC, Ansys APDL, G-code
- **Software:** Git, Simulink, RTOS, Polarian, Jira, SolidWorks & PDM, FEA Simulation, Various Slicers, SAP
- **Hardware:** Arduino, ESP32, FDM & SLA 3d Printing, Hydraulics, Pneumatics, Encoders, Photocells, Motors, Turbine Engines, Sonar, Servos, Inferred, Aircraft, Fanuc robot arm

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Projects

- **RTOL Turbo-Electric Aircraft:** (Undergraduate) Rocket assisted takeoff, hybrid powered aircraft.
- **Project management application:** Created and managed application in SharePoint using PowerApps
- **End-to-end product developer:** for several mechanical/electrical projects (e.g., hydraulically powered systems, remote controlled robot, heavy trailers, tables, enclosures)

Private Piano Instructor (Midwest City, OK)

August 2013 - January 2023

- Coordinated lessons/recitals & formulated custom lessons for each student's needs