

Professional Experience

Lead Applications Engineer - Wilder Robotics (Oklahoma City)**May 2025 - Present**

- 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**

- Developed new features and solved issues with simulation software for Skydweller aircraft

Product Engineer - Downing USA (Oklahoma City)**Feb 2022 - Sep 2024**

- 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**

- 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**

- 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**

- 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**

- 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

& June 2017 - August 2017

Education

Georgia Institute of Technology**GPA 3.83**

- 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**

- 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