

Cort Smith
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EXPERIENCE

Design Engineer & Stress Analyst | HLA Engineers Inc. | October 2023 – Current

Specialized in developing and validating structural solutions for diverse client needs in a consulting environment.

- Develop solutions tailored to client specifications, optimizing for performance, cost, and manufacturability.
- Utilize CAD and FEA software tools to model and evaluate mechanical components and systems.
- Post process and analyze results to provide technical expertise focused on Stress Mechanics and Fatigue while providing recommendations to enhance project outcomes and foster long-term partnerships.
- Collaborate with cross-functional teams to integrate design feedback and refinement throughout the project lifecycle within industry standards and requirements.
- Prepare comprehensive reports and documentation to present results and design decisions to stakeholders.
- Manage confidential drafting and design projects, ensuring adherence to client confidentiality agreements.

Helicopter Frame Analysis and Kit Production | UTA | January 2023 – August 2023

Lead a compact team for analyzing, fabricating, painting, and assembling a Revolution 500 helicopter kit.

- Modeled a weldment frame in SolidWorks and performed structural analysis using ANSYS.
- Identified failure zones and recommended fabrication improvements to enhance structural integrity.
- Ensured compliance with specifications and quality standards through inspections and corrective measures.
- Successfully delivered a fully assembled helicopter, now displayed at Nedderman Hall as a representation of UTA's engineering excellence.

Contractor | MPI Construction Inc. | Dallas - Fort Worth Metroplex | April 2016 – June 2023

Contractor in commercial and residential settings specializing in unique custom projects.

- Supervised contract teams in industrial settings, overseeing custom design and construction projects.
- Designed and built custom furniture, framing, and remodeling projects for residential and commercial clients.
- Fabricated custom steel and aluminum structures using ARC and MIG welding techniques.
- Installed, maintained, and repaired custom-built components, including cabinets, appliances, and engines.

General Manager | Pei Wei Fresh Kitchen LLC | Mar 2004 – Apr 2016

Dedicated General Manager leading teams of staff and management focused on customer's satisfaction, business sales growth, and restaurant operations with annual sales up to \$3.25 million and EBITA up to 32%.

- Managed teams of up to 40 employees, overseeing recruitment, training, and daily operations.
- Directed financial performance, including budgets, payroll, inventory, vendor relations, and profit optimization.
- Implemented process improvements to enhance efficiency, customer satisfaction, and company culture.

SKILLS

Engineering & Design: 3D CAD (Inventor, SolidWorks) | GD&T | Fabrication | Structural Mechanics | Hand Calculations | Additive Manufacturing

Simulation & Analysis: FEA (ANSYS Workbench, APDL) | CFD (Fluent) | Stress & Fatigue Analysis | Thermal & Multiphysics Simulation | Weld Analysis | Modal & Buckling Analysis | Nonlinear Analysis

Software & Tools: ANSYS Suite | Autodesk Inventor | SolidWorks | Microsoft Office Suite | Altair's HyperMesh

Leadership & Communication: People Management | Innovative Presenter | Effective Communicator | Technical Writing | Cross-Functional Collaboration | Project Management

EDUCATION & CERTIFICATIONS

Master of Business Administration in Innovation & Technology Mgmt. | *University of Texas at Arlington* | Information Systems Concentration | Beta Gamma Sigma Honors Society | *Expected December 2026*

Bachelor of Science in Mechanical Engineering | *University of Texas at Arlington* | *December 2023* | GPA: 3.44 | Pi Tau Sigma Honors Society & ASME Networking Chair Officer

Associate of Science | *Tarrant County College* | *May 2021* | GPA: 3.54 | Phi Theta Kappa Honors Society

Engineer-In-Training (EIT), Texas | License No: 81076 | *Issued June 2024*