

Troy Hayden

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Salt Lake City, UT

Portfolio: [Troy Hayden \(troyhaydenengineer.com\)](http://troyhaydenengineer.com)



EXPERIENCE

SUBZERO ENGINEERING, SLC, UT

March 2024 – Present

Lead Sales Application Engineering

- Scaled aisle frame product revenue from \$1M/year to \$36M in Q1–Q2 2026, driving ~40% average project margins through discovery-led scoping, in-house manufacturing, and cross-functional execution.
- Built and led a global team (10 reports: 3 US, 7 Vietnam); launched the Vietnam SAE office and stood up in-house aisle-frame fabrication control supply, improve quality, and support rapid growth.
- Designed & program-managed a first-of-its-kind structural HAC for Google (Japan); coordinated custom fabrication in Vietnam; delivered \$640,000 pure profit on the project.
- Led discovery for a 60-aisle liquid-cooled structural HAC for Serverfarm (tenant: AWS), closing \$8.2M and upselling \$1.8M in change orders (electrical room supports + auxiliary steel structure) via scope expansion.
- Drove solutions for raised floor, slab-on-grade, retrofit, live data centers, multi-story, low/high-seismic environments
- Customers: AWS, Meta, CoreWeave, Google, CyrusOne, Microsoft, various hyperscale/colo/edge data center owners
- Implemented cross-functional handoffs, participated in weekly SIOP, and instituted practical operating processes
- Product leadership: managed SAEs on new product (“DAB panel”) from concept through adoption.

TIE DOWN ENGINEERING, Atlanta, GA

March 2022 – March 2024

Mechanical Design Engineer

- Drove cross-functional teams in the delivery of high-risk, complex programs/projects in product development
- Executed testing and documentation assuring compliance with regulations (internal, governmental, and environmental)
- Evolved quality procedures and instructions for inspection and testing of manufactured products based on customer, engineering, consumer, and regulatory test standards
- Performed simulations in SolidWorks (stress analysis, displacement, fatigue, Factor of Safety, motion study)
- Created component and detailed assembly drawings using GD&T and Tolerance Stack-Up
- Initiated and led 3D printing program which streamlined rapid prototyping, and introduced new fixturing techniques
- Patents: 1 functional, 4 contributions

PLAE, Canton, GA

June 2021 – March 2022

Product Design Engineer

- Funneled product concepts and specs, manufacturing controls per part, production part drawings, engineering marketing material, specs for outsourcing (paint and various machining methods)
- Implemented Product Data Management in SolidWorks working towards Industry 4.0 and Lean Sigma Six
- Created product development timelines, supply chain dependencies, and weekly report for leadership team
- Developed engineering processes and documentation for manufacturing
- Consulted in factory layout and workflow including flat laser, tube laser, press break, prototyping, automated welding, paint booth, acid wash, and packaging cells
- Patents: 2 design, 1 functional

SKILLS

Engineering: GD&T, Kaizen, Part Design: Plastic Injection Molding, Steel Casting, Forging, Al Extrusion, Machined Plastic and Metals, Coldworked Fasteners, Laser Cut Steel, Finishes, Coatings, RCA

Certifications: SolidWorks Associate, 3M Fall Protection Qualified Engineer, Google ‘Project Management Professional’

Software: Bluebeam Revu, SolidWorks, Monday.com, Building Connected, Procore

Programming: MATLAB, vPython, LabVIEW, RGui, Trumpf G-Code Suite, Copilot Studio

Other: Open Water Diver SSI, Continued education with Coursera and Brilliant

EDUCATION and LEADERSHIP

KENNESAW STATE UNIVERSITY, Marietta, GA

Aug 2018 – May 2021

- B.S. Mechanical Engineering, Senior Design: SAE Racecar prepreg composite suspension

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

Aug 2013 - Dec 2016

- Division I Athlete - Track & Field and Cross-Country, ME2110 robot competition voted best design

EAGLE SCOUT

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