

Findley Lacey

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EDUCATION

Fairfield University, Fairfield CT
Bachelor of Science, Mechanical Engineering

Expected 2026
3.20 GPA

- Aerospace Concentration
- Minors in Physics and Mathematics
- Undergraduate Hypersonics Research Assistant

PROFESSIONAL EXPERIENCE

Mechanical Engineering Intern
Jet Aviation, A General Dynamics Company

May – August 2025
Basel, Switzerland

- Designed components for customized aircraft in accordance with regulatory standards, ensuring compliance and production readiness. This included 3D design and 5-Axis CNC programming using Siemens NX and application of Design for Manufacturing (DFM) and Design for Installation principles to streamline fabrication and installation.
- Standardized manufacturing and design processes by aligning industrial methods with artisanal craftsmanship, improving build efficiency.
- Updated DFM guidelines and authored technical documentation, reducing design variability across teams.
- Assessed legacy versus current practices to align design and manufacturing team communication and consistency.

Engineering Intern
Abbott Nutrition, a division of Abbott Laboratories

June – August 2024
Abbott Park, IL

- Designed and implemented a new sanitation system for a high-speed bottle conveyor into manufacturing operation, cutting microbial levels, and reducing downtime. Developed the project action plan using Six Sigma activities such as DMAIC, 5-Whys, and Fishbone.
- Evaluated five North American manufacturing facilities' Spill Prevention, Containment and Control plans against the Environmental Protection Agency guidelines for alignment.
- Supported the implementation of a new sanitation chemical in a NA manufacturing facility by following and completing the New Commodity Process. Completed all documentation requirements using the chemical Safety Data Sheets and facilitated a Failure Mode Effect and Analysis review of the current and proposed process.
- Led redline review of existing internal engineering standards for HVAC system design and pressure vessels and tanks utilizing current European Hygienic Engineering Design Group guidelines.

Student Design Engineer and Hypersonics Researcher
Fairfield University, Department of Engineering

September 2024 – Present
Fairfield, CT

- Co-lead for the design, construction, and testing of a hypersonic wind tunnel facility to support aerospace research.
- Developed 3D models and simulations for Driver Tube, Dump Tank, and Test Mount using SolidWorks and ANSYS.
- Verified structural and safety compliance with ASME Boiler Code requirements for pressure systems.
- Currently conducting research into cost effective, high precision sensor equipment for hypersonic flight systems.

LEADERSHIP AND INVOLVEMENT

President, American Society of Mechanical Engineers chapter

- Manage guest speaker events and visits with local industry partners and to prepare members for career success.

Student Advisory Council, School of Engineering

- Faculty elected student board to voice feedback and updates about student life, classwork, and club activities.

President, Fairfield Men's Club Volleyball Team

- Run daily club operations such as practices, scheduling tournaments and team events.
- Previously team Secretary and Underclassmen Representative Junior and Sophomore year.

TECHNICAL SKILLS

Design and Simulation: SolidWorks, ANSYS, Siemens NX, AutoCAD, Fusion 360, Revit

Data and Engineering Tools: MATLAB, Power BI, Microsoft Office, LaTeX