

# Findley Lacey

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## Education

**Mechanical Engineering – Bachelor of Science – 2026**

**Fairfield University – Fairfield, CT**

- 3.19 GPA with minors in Physics and Mathematics.
- Xavier Merit Scholarship recipient.
- Vice President of American Society of Mechanical Engineers, University Chapter.
- Co-Captain, Secretary, and Health Officer Men's Club Volleyball Team.

## Professional experience

**Summer Engineering Intern, June 2024 to August 2024**

**Abbott Nutrition, a division of Abbott Laboratories – Abbott Park, IL**

- Designed a new sanitation system layout for a high-speed bottle conveyor to provide additional cleaning and sanitation chemicals to reduce microbial levels.
  - Performed Six Sigma activities such as DMAIC, 5-Whys, Fishbone to determine root cause and develop the action plan that was implemented.
  - Supported commissioning, testing and installation of new sanitation spray bar system.
- Evaluated five (5) North American manufacturing facilities Spill Prevention, Containment, and Control (SPCC) plans against the Environmental Protection Agency (EPA) guidelines for alignment.
- Supported a North American manufacturing facility with the introduction of a new sanitation chemical by completing and following the defined New Commodity Process. Completed all documentation requirements by obtaining Material Safety Data Sheets (SDS) of the new chemical and facilitated a Failure Mode Effect and Analysis (FMEA) review of the chemical with the current and proposed process.
- Utilizing current European Hygienic Engineering Design Group (EHEDG) guidelines, participated in redline review of existing internal engineering standards for HVAC system design and Pressure Vessels/Tanks.
- Created information outline for Abbott employees comparing key differences in governing hygienic design organizations 3-A Sanitary Standards Inc. (3-A SSI) and EHEDG.

**Student Design Engineer, September 2024 - Current**

**Department of Engineering, Fairfield University – Fairfield, CT**

- Assist in the design, construction, and testing of a high-speed wind tunnel.
  - SolidWorks 3D CAD design and simulation of the Driver Tube, Dump Tank, and Test Section Mount.
  - Complete thermodynamic calculations to ensure tube stability through testing.
  - Verify design compliance with American Society of Mechanical Engineers (ASME) Boiler code requirements.
- Contact manufacturers to source materials and ensure manufacturability.

**Public Works Seasonal Employee, June 2022 to August 2023**

**Village of Lake Bluff – Lake Bluff, IL**

- Responsible for the landscaping of parks and parkways, requiring weekly maintenance and upkeep.
- Cleared debris and buildup from storm drain system with Vac-con vacuum truck to prevent failure during storm.
- Assisted the repair of public infrastructure projects.
  - Removed damaged concrete water main and replaced section with PVC tubing and flexible couplings.
  - Restored multi-layered gravel ravine walkway, which sustained heavy structural damage in a rainstorm.

## Skills and Certifications

- SolidWorks 2024 (3D CAD software)
- Autodesk (AutoCAD, Revit, Fusion 360)
- MATLAB
- Microsoft Office, Excel Certified - Udemy
- CPR/First Aid Certified
- Technical drawing, GD&T
- Technical writing
- Public speaking
- Problem solving