

Audrey Anderson

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EDUCATION

Northeastern University

Boston, MA

Candidate for BS in Mechanical Engineering | Minor in Spanish

Expected December 2027

Relevant Coursework: Heat Transfer, Fluid Mechanics, Thermodynamics, ME Design & Computation, Fluid Dynamics, Material Science

GPA: 3.5 / 4.00

Awards & Certifications: Dean's List Spring 2024 & Fall 2025, SOLIDWORKS CAD Design Associate

Extracurricular Activities: [Generate Product Development Studio](#), ASME, Society of Women Engineers

Study Abroad: Fluid Mechanics – Panama | Spanish Language & Culture – Argentina

SKILLS

CAD & Programming: SolidWorks (CSWA), Onshape, Fusion 360, Python, C++, MATLAB, Arduino

Manufacturing: FDM and SLA 3D Printing, CNC Routing, Laser & Waterjet Cutting, Welding, Soldering, Plumbing

Engineering: Rapid Prototyping, Electromechanical Systems, Test-Fixture Design, Design of Experiments

ENGINEERING EXPERIENCE

SharkNinja

Needham, MA

Research and Development Engineer

January – June 2025

- Designed and built an electromechanical airflow test rig in SolidWorks, integrating electronic controls and Python Phidgets for automated positioning and data collection
- Prototyped and 3D printed fan attachments with different inlet and outlet geometries completing more than 800 different experiments to increase airflow and reduce noise
- Analyzed test data to drive design decisions from early-stage prototypes to design release for manufacturing, contributing to the development of the ChillPill fan
- Created detailed engineering drawings for the custom test-rig components to support fabrication and assembly

Lithios

Medford, MA

Stack Design Engineer

January – June 2026

- Assembled multilayer extraction stacks and improved the production process using a hydraulic press and optimized gasket configurations, increasing consistency and supporting system scale-up
- Built and tested complex check-valve assemblies and plumbed industrial pilot rigs using specified pipe diameters to maintain required flow rates, prevent fluid mixing, and validate system performance
- Evaluated new extraction plate geometries through stress testing to reduce technical risk before large-scale procurement
- Led design reviews for cross functional engineering teams, presented solutions and findings to verify next steps and meet deadlines

PROJECTS

Generate Product Development Studio

Boston, MA

Hardware Engineer, Northeastern University

January 2026 – Present

- Designed and modeled a Scotch-yoke mechanism using Onshape which converted stepper-motor rotation into the linear oscillation required for traditional matcha whisking
- Fabricated custom components using FDM 3D printing and iterated on prototype geometry to improve mechanism function and assembly
- Collaborated with a 10-member multidisciplinary engineering team to define electromechanical interfaces and integrate five subsystems within a compact enclosure
- Engineered a spring plunger attachment system to enable quick whisk removal for cleaning and replacement

ADDITIONAL EXPERIENCE

MakerSpace at EXP

Boston, MA

Technician

June 2026– Present

- Maintain, inspect and fix more than 20 FDM and SLA 3D printers, diagnosing mechanical and print-quality issues to minimize equipment downtime
- Train students in the safe operation of makerspace tools and equipment, from sewing machines to CNC routers
- Guide students through project planning while also leading tours, workshops and hands-on training sessions

INTERESTS

In my free time I like to play pickleball, travel and continue learning Spanish. I also run a dog walking business.