

Daniel Friedlander

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EDUCATION

Northeastern University, College of Engineering Boston, MA
Candidate for Bachelor of Science in Mechanical Engineering May 2027
Minor: Computer Science GPA: 3.67
Awards and Activities: Elite Heat, Ortelian's Society, Squash, Cheese Club, Dean's List
Relevant Coursework: Object-Oriented Design, Mechanics of Materials, Dynamics, Thermodynamics, CAD and Manufacturing

John Cabot University Rome, Italy
Semester Study Abroad December 2023

SKILLS + INTERESTS

Technical Skills: Proficient in Microsoft Suite, Java, Python, MATLAB, SolidWorks, and AutoCAD

Interests: Playing Rugby (Go Springboks), OCR Races, Philadelphia Eagles Fan, Great British Bake Off

WORK EXPERIENCE

TJX Companies Inc. Framingham, MA
Freight Pay Specialist Co-op July 2024 – December 2024

- Collaborated cross-functionally with Operations Management and Carrier Management teams to ensure accurate freight billing across large-scale distribution networks.
- Diagnosed and resolved discrepancies in carrier billing, contracts, and EDI transmissions.
- Audited more than 200 freight invoices to ensure software and data-pipeline accuracy.
- Created new automated processes and streamlined existing processes for involving data input.

Harbor Bike and Beach Shop Stone Harbor, N.J.
Sales Associate & Jr. Mechanic May 2020 – August 2023

- Performed mechanical diagnostics, repair, and restoration on more than 200 bicycles, ensuring safety, reliability, and quality control.
- Trained new mechanics on mechanical repair procedures, shop workflows, and safety protocols.
- Communicated repair needs to customers by translating mechanical issues into clear explanations.

PROJECT EXPERIENCE

Northeastern University Boston, MA
Puzzle Box – Pico Kit Project Fall 2025

- Designed and implemented a Raspberry Pi Pico-based embedded system integrating multiple push-button inputs, an LCD display, and two servo motors.
- Developed embedded firmware to implement an interactive puzzle game, processing user inputs and managing real-time system responses
- Analyzed and visualized user performance data in MATLAB by evaluating completion times.

Northeastern University Boston, MA
Biomimetic Bridge Design Fall 2025

- Designed a biomimetic model bridge to minimize material usage and overall cost
- Developed detailed AutoCAD drawings and created the bridge using laser-cut wooden pieces
- Evaluated multiple iterations to find an optimal balance of strength, material efficiency, and cost

VOLUNTEER EXPERIENCE

St. Joseph's Preparatory School & Hurtado Food Pantry Philadelphia, PA
Community Volunteer September 2018 – June 2022

- Conducted a city trash and recycling pickup days to support public health.
- Delivered Thanksgiving food boxes to local community leaders to distribute to families.