

# ANDREW E. HEDBERG

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## EDUCATION

**Northeastern University**, College of Engineering, Boston, MA      December 2026  
Candidate for Bachelor of Science in Mechanical Engineering and Design      GPA: 3.24

*Relevant Courses:* Mechanical Design, Dynamics, Thermodynamics, Measurements and Analysis, Mechanics of Materials, Material Science, Statics, Cornerstone of Engineering I-II, Physics I-II, Calculus I-IV, Chemistry, Prototyping with Code, Design Perspectives, Processes and Practices, and Experience Design

*Activities:* American Society of Mechanical Engineers, NU Robotics Club, Intramural Sports

**Lyme-Old Lyme High School**, Old Lyme, CT      June 2022  
High School Diploma      GPA: 3.85

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## SKILLS

- *Applications:* SolidWorks (CSWA Certified); LabVIEW; MATLAB; AutoCAD; Revit; C++; Microsoft Office
- *Machining:* SLA & FDM 3D Printing; Waterjet Cutter; CNC Machines; Laser Cutting; Woodworking; Soldering
- *Designing:* Sheet Metal, Extrusion, DFM/ DFA; FA; FEA; GD&T

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## CO-OP WORK EXPERIENCE

*Product Development Engineering Co-op*, MilliporeSigma, Burlington, MA      Jan. 2025 – June 2025

- Led project team of six engineers and scientists in developing pneumatic controller to evaluate and optimize performance of filtration devices to be manufactured and sold to distributors and research laboratories.
- Designed various mechanical and electro-mechanical fixtures for use in manufacturing and testing.
- Generated engineering drawings and assemblies for numerous parts fabricated in off-site machine shops.
- Prototyped fixtures using 3D printing, laser/ waterjet cutting, breadboarded electronics, and LabVIEW programs.
- Evaluated competitor and in-development products using microscopy, tensile testers, and other methods.
- Performed metrology on various parts using optical comparators, vernier calipers, and drop indicators.
- Conducted market/ landscape analyses in product roadmapping for the innovation leadership team decisions.
- Authored reports and gave presentations of quantitative data, experimental findings, and qualitative evaluations.

*Mechanical Engineering Product Dev. Co-op*, Product Insight, Inc., Boxborough, MA      Jan. 2024 – June 2024

- Designed, tested and fabricated components to improve thermal dissipation of PCBs, DMDs, and LEDs.
- Responsible for designing cases for human presence detection radars, PCBs, accelerometer and light sensors.
- Collaborated with vendors to machine highly accelerated life testing fixture utilizing FEA to prepare drawings.
- Oversaw laser-cutting, 3D-printing, and rapid prototyping techniques for entire mechanical engineering team.

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## OTHER WORK EXPERIENCE

*Resident Assistant*, Northeastern University, Boston, MA      Aug. 2023 – Present

- Serve as a role model, peer counselor, resource, advocate, and community builder for residents.
- Enforce university and residence hall regulations and respond to complaints, reports, and emergencies.
- Plan and promote interactive social and educational programs/ events for residents.
- Manage front desk and sign residents/guests into residential halls per Residential Security Office protocols.

*Summer Conference Assistant*, Northeastern University, Boston, MA      May 2025- Aug 2025

- Collaborated with diverse team of staff to support NU's summer conference operations.
- Assisted with event logistics and acted as primary point of contact for conference guests.

*Golf Staff*, Black Hall Club, Old Lyme, CT      June 2021 – Aug. 2023

- Supported golf professionals, maintenance and dining room staff in daily operations, and worked in pro shop.

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## LEADERSHIP & VOLUNTEER EXPERIENCE

*Lead Mentor*, Roxbury Robotics Club, Northeastern University, Roxbury, MA      Jan. 2023 – May 2024

- Train 6+ new mentors to engage elementary school-aged children in learning engineering and robotics.
- Teach 20+ elementary school-aged children basic engineering principles and the engineering design process.

*Ambassador/ Spokesperson*, Dana Farber Cancer Institute, Boston, MA      2019 – Present

- Share my cancer journey with corporate partners to raise money and awareness for pediatric cancer research.

*Ambassador Agent*, Make It Better (MIB) Agents, Barnard, VT      2021 – Present

- Connect with osteosarcoma patients and their families as a certified peer visitor.

*Community Outreach*, Fenway Community Center, Boston, MA      Aug. 2023  
*Counselor*, Vacation Bible School/ *Volunteer*, Christ the King Church, Old Lyme, CT      2018 – 2022  
*Survivor/ Spokesperson*, Relays for Life – Connecticut and Massachusetts      2012 – 2018

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## INTERESTS

- Traveling, golf, basketball, abstract and representational drawing, and playing the guitar.