ANDREW ROSENTHAL

650-313-8379 | Rosenthal.andr@northeastern.edu | Andrewrosenthal.xyz | Github | Linkedin

EDUCATION

Northeastern University, Boston, MA **Sep 2024 — May 2027**

Candidate for Bachelor of Science in Electrical and Computer Engineering, Minor in Sports, Media & Communication
GPA: 3.59
Awards: Dean's list (all semesters)
Courses: Networks, Embedded Design, Analysis of Random Phenomena, Electronics, Algorithms, Circuits & Signals, Computing Fundamentals, Cornerstone of Engineering
Clubs: Forge, Northeastern Robotics

Lafayette College, Easton, PA **Aug 2022 — May 2024**

Candidate for Bachelor of Science in Electrical and Computer Engineering
Courses: Calculus III, Physics: Mechanics, Physics: Electricity & Magnetism, Statistics, Digital Circuits II, Computer Gaming

PROFESSIONAL EXPERIENCE

Hardware Engineering Co-op, Leuko, Cambridge, MA **Jan 2026— June 2026**

- Designed and managed PCB revisions in KiCad and Altium worked with contract manufacturers including PCBWay and Sierra Circuits to manufacture boards
- Designed and assembled a galvo QC test fixture to streamline hardware validation and manufacturing testing
- Built, refurbished, and troubleshot clinical hardware units to identify and resolve electrical and manufacturing issues

Manufacturing Intern, Pickle Robot, Cambridge, MA **May 2023 — Aug 2024**

- Fabricated and developed autonomous unloading robots through PCB soldering, IPC software loading, and electrical system assembly
- Built quality-control testing hardware, ensuring reliability of robotic systems
- Maintained and retrofitted prototype robots to improve performance and extend lifecycle

TECHNICAL SKILLS

Hardware:	Soldering, Embedded Systems (Arduino, Raspberry Pi, ESP32), Oscilloscopes, Multimeters
Software/Web:	Java, MATLAB, Python, C++, MIPS Assembly, QGIS, R, Git, PSpice
CAD/Hardware Design:	SolidWorks, Altium Designer, SystemVerilog, Xilinx Vivado, QGIS, AutoCAD, LaTeX

PROJECTS

Northeastern Robotics – VECTOR (Club) **September 2025 — Present**

- Designing and fabricating PCBs for VECTOR, an autonomous drone designed for aiding construction sites and other jobs, capable of swapping tool-head modules while operating

Forge - Portable Posture Backrest (Club) **Jan 2025 — Apr 2025**

- Developed a sensor-based backrest with a team, integrating pressure sensors to monitor and correct posture
- Engineered and wired the electrical system and programmed the microcontroller to process sensor data

Watch Making (Personal Project) **April 2025 — Present**

- Creating unique custom Seiko watches while sourcing all the components including movements, cases and dials

Peely's Animal Adventure (Cornerstone of Engineering) **September 2024 — December 2024**

- Built an educational game with Arduino and Python, designing and wiring the electrical system to use RFID trigger LEDs, mist, and visual feedback
- Implemented automatic data logging and visualization of user performance to evaluate educational effectiveness