ANDREW ROSENTHAL

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EDUCATION

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

Bachelor of Science Electrical and Computer Engineering

GPA: 3.64

Awards: Dean's list (all semesters)

Courses: Networks, Embedded Design, Analysis of Random Phenomena, Electronics, Linear Systems, Algorithms, Circuits & Signals, Computing Fundamentals, Cornerstone of Engineering

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

Bachelor of Science Electrical and Computer Engineering

Courses: Calculus III, Physics: Mechanics, Physics: Electricity & Magnetism, Statistics, Digital Circuits II, Computer Gaming

PROFESSIONAL EXPERIENCE

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

- Fabricated and developed autonomous unloading robots through PCB soldering, IPC software loading, and electrical system assembly
- Designed and built quality-control testing hardware, ensuring reliability of robotic systems
- Maintained and retrofitted prototype robots to improve performance and extend lifecycle
- Collaborated directly with the CEO to prepare technical demonstrations for customers and investors

TECHNICAL SKILLS

Soldering, Wiring, Java, Matlab, Python, R, C++, System Verilog, MIPS Assembly, QGIS, Autocad, Solidworks

PROJECTS

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 over time

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

- Designed and assembled three custom Seiko watches by sourcing authentic components
- Created unique dials and case designs and applied advanced finishing techniques

Lafayette Motorsports Club (Club) **August 2022 — December 2023**

- Designed electrical layout as part of wiring team and tested system components
- Installed brake line systems and fabricated molds for exterior body panels

First Person View Racing Drone (Personal Project) **April 2022 — August 2023**

- Sourced and assembled components for FPV racing drone
- Executed precision soldering, wiring, and programming for complete system integration

Peely's Animal Adventure – Interactive Exhibit (Course Project) **September 2024 — December 2024**

- Built an educational game with Arduino and Python where users place extinct animals into correct habitats, triggering LED, mist, and visual feedback
- Implemented automatic data logging and visualization of user performance to evaluate educational effectiveness