Dawson Rose

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EDUCATION

Northeastern University, Boston, MA *May 2029*
Candidate for Bachelor of Science in Electrical and Computer Engineering *GPA: 3.4*
Relevant Coursework*:* Enabling Engineering, Embedded Design, Circuits and Signals
Activities: AI Student Advisory Board, Beta Theta Pi Fraternity, Northeastern Electric Racing

SKILLS

Technical Skills: Adobe Illustrator, Altium, Arduino, AutoCAD, Claude Code, FPGA, MATLAB, Multimeter, Myoware Sensors, Python, SolidWorks, 3D Printing
Soft Skills: Client Relations, Leadership, Pitching & Public Speaking, Product Strategy, Self-Directed Work

PROJECTS

Fantasy Stock Trading App – Self Directed *Jan 2026 – Present*
- Co-founded and built a fantasy football-style stock trading app in Xcode using Claude Code, enabling users to draft and manage portfolios of paper equities
- Lead product strategy and pitch development for the Husky Startup Challenge, advancing against 15 competing teams

Electromyography Music Device *Jan 2026 – Apr 2026*
- Developed an Arduino-based assistive device using Myoware sensors to capture neck and jaw muscle signals from elementary school students with disabilities
- Programmed signal processing that converts EMG data into musical notes in real time so students could play along with songs; integrated the Myoware sensor circuit with a teammate's Arduino code on a 5-person team

Escape Room Centrifuge Puzzle *Jan 2026 – Apr 2026*
- Engineered and fabricated a centrifuge-style puzzle in SolidWorks delivered on deadline for a live escape room event run for 40+ participants
- Designed and assembled the electrical housing in Adobe Illustrator and cut components on a commercial-grade laser cutter, integrating teammates' glass vials, 3D-printed centrifuge parts, and electronics into the final build on a 4-person team

Cyclone Arcade Game *Nov 2025 – Dec 2025*
- Designed and fabricated a Cyclone-style arcade enclosure in AutoCAD, laser cutting 7 parts for final assembly
- Programmed Arduino game logic driving a timed spinning-light sequence that players stop on a target to score, working jointly with a 4-person team across design, fabrication, and code

WORK EXPERIENCE

Caddiemaster – TPC Boston | Norton, MA: *Caddie* *May 2026 – Aug 2026*
- Advised 10+ member and guest golfers per week on yardage, club selection, and course strategy across 18-hole rounds at a PGA Tour venue

Knollwood Cemetery | Canton, MA: *Landscaper* *Jun 2025 – Aug 2026*
- Maintained 340 acres of cemetery grounds on a weekly mowing, trimming, and edging schedule with no direct supervision

Markforged | Waltham, MA: *Job-Shadow* *Jun 2025 – Jun 2025*
- Shadowed design and manufacturing engineers for a week, tracing parts from CAD model through print and post-processing
- Documented 5+ production workflows across additive manufacturing and quality teams at an industrial 3D printing company

Salem Food Market | Dedham, MA: *Line Cook, Cashier, Deli Worker, Delivery Driver* *Mar 2024 – Jun 2025*
- Prepared hot food and sliced deli orders alongside kitchen staff during peak service, filling 20+ orders per shift

ORGANIZATIONS & LEADERSHIP

Northeastern Electric Racing *Sep 2026 – Present*
- Learn Altium Designer through lectures in the club's new-member onboarding program, applying each concept through hands-on practice during weekly bay times
- Gain real-world experience in schematic design and component placement, working toward designing and producing an original circuit board by the end of the semester

Student Government AI Advisory Board *Apr 2026 – Present*
- Advise Northeastern leadership on student-facing AI policy as 1 of 12 members selected from 50+ applicants
- Review proposed AI guidelines per semester and present student feedback to university administrators

Entrepreneurship Club *Jan 2026 – Apr 2026*
- Competed in the semester-long Husky Startup Challenge, building and pitching a startup concept to a judging panel against 15 student teams
- Attended weekly networking events and workshops on pitching and entrepreneurship strategy as 1 of 30 students selected for the Ambassadors cohort

Interests: Snowboarding, leatherworking, golf, film