

Quinn Morris

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EDUCATION

Northeastern University, College of Engineering
Candidate for Bachelor of Science in Mechanical Engineering

Boston, MA
Expected Dec 2027

Relevant Coursework: Heat Transfer, Controls, Fluid Mechanics, Thermodynamics, Dynamics, Material Science, Mechanics of Materials, Calculus I-III, Physics I-II

SKILLS AND CERTIFICATIONS

Software Applications: SolidWorks, AutoCAD, Microsoft Office, Arduino IDE

Programming Languages: C++ and Matlab

Fabrication: Miter Saw, Band Saw, Jig Saw, Drill Press, Laser Cutting, 3D Printing

Certifications: CSWA, CSWP

PROJECTS

Automatic Tennis Ball Launcher V2

Summer 2026

- Designed and built battery-powered dual-flywheel launcher with programmable launch angle, topspin/backspin control, and verified 60-100 ft range
- Modeled in SolidWorks: aluminum extrusion frame, 3D-printed clamped wheel hubs, and linkage translating actuator travel into launch-angle tilt
- Designed KiCad schematic; 12V LiFePO4 with fused distribution, motor drivers, and live battery monitoring
- Developed ESP32 firmware (C++) with BLE-controlled phone app for motor control, angle targeting, auto-sweep, and limit-switch homing

Arcade Basketball Game

Fall 2023

- Developed and showcased a functional arcade basketball game, managing a budget (\$200), and deadlines
- Designed the backboard and various obstacles in AutoCAD and manufactured them using laser cutting
- Independently wrote all code in Arduino IDE to implement score tracking, difficulty selection, win/lose conditions, and dynamic LCD displays for different game states
- Effectively collaborated in a team of four to organize tasks and troubleshoot design challenges

Automatic Tennis Ball Launcher V1

Spring 2023

- Fully designed and manufactured an automatic tennis ball launcher, adhering to a strict budget of \$300, incorporating multiple mechanical systems for feeding, launching, and transportation
- Engineered and fabricated custom components, including ball guiding ramps and plates, using AutoCAD and Fusion 360 for design, and laser cutting and 3D printing for manufacturing
- Assembled a ball feeding and launching system on a precision-cut wooden frame and integrated mechanical fixtures and adjustable speed controllers to propel tennis balls up to 50 feet with variable spin and speed

EXPERIENCE

Zaiput Flow Technologies

Mechanical Engineering Intern

Waltham, MA
Jan 2026 - Jul 2026

- Developed a fluid pump stand through successive rounds of 3D-printed prototypes; the final design was manufactured out of house in 316 stainless steel and now ships to customers as a production accessory
- Authored an illustrated assembly manual shipped with the separator cart, enabling customers to assemble it without engineering support
- Modeled exploded-view drawings with sourced BOMs for cable assemblies and accessory kits, letting engineers reorder components directly and speeding packing and procurement
- Designed a test panel integrating four pumps in parallel with tube fittings, check valves, and a flow meter to validate our separator at its 3000 mL/min maximum rated flow rate