

Elijah Morse

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Education

Wentworth Institute of Technology, Boston, MA

Expected Aug 2028

Bachelor of Science in Mechanical Engineering

Courses: Calculus II | Engineering Physics II | Applied Engineering Analysis | First-Year Engineering Design | Manufacturing Processes | Circuit Theory and Application | Engineering Statics | Thermo Dynamics | Computer Aided Manufacturing | Multivariable Calculus | Mechanics of Material

Technical Skills

Software: MATLAB | SolidWorks | Microsoft Office | nTop | Adobe Acrobat | Cura | Wireshark | Packet Tracer | Blender | Multisim | Solid Works CAM

Manufacturing: 3D Printing | Sand Casting | Milling Machine | Spindle Machine

Certifications: OSHA | Lowe's Power Equipment Certification

Work Experience

Front End Customer Service | Papa Ginos Pizzeria, Weymouth, MA

Sep 2021 - Nov 2023

- Processed transactions, independently managed front-end service, and supported kitchen operations.
- Resolved customer concerns professionally in a fast-paced environment.

Bench Cook | D'Angelo Grilled Sandwiches, Weymouth, MA

May - Aug 2024

- Prepared orders accurately under time constraints and handled opening and closing responsibilities.

Plumbing Sales Associate | Lowe's, Weymouth, MA

Apr - Aug 2025

- Supported department operations with limited staffing and completed plumbing product training.
- Earned a Service Star badge for plumbing knowledge and customer service.

Meat Team Member | Whole Foods, Weymouth, MA

May - Aug 2026

- Assisted customers with product selections, restocked displays, and learned meat preparation from master butchers.

Projects

Combination Wrench Grip | SolidWorks, nTop

Spring 2025

- Identified tool accessibility challenges for individuals with reduced grip strength or physical disabilities.
- Designed a modular wrench grip with a socket-mounted interface for multiple standard wrench sizes, eliminating size-specific attachments.
- Iterated designs to improve socket connection stability and ergonomic handle geometry.
- Validated fit and function across six wrench sizes using nTop.

The Bike Bristle: Bicycle Chain Cleaning Attachment | SolidWorks

Fall 2025

- Designed an automated chain-cleaning solution to address degradation caused by inconsistent maintenance.
- Engineered an adjustable clamp in SolidWorks to fit multiple bicycle frame geometries without permanent modification.

Pneumatic Air Piston | SolidWorks, Machining, Casting, CNC

Spring 2026

- Interpreted engineering drawings and applied specified dimensions to machine piston assembly components.
- Drilled and machined aluminum components for the piston assembly.
- Sand-cast a mounting plate and tapped threaded holes to secure the assembly to its base.
- Tested the mechanism, achieving rotational speeds exceeding 4,000 RPM.

Leadership & Activities

- **SkillsUSA Vice President:** Team silver medal in leadership conference project design; regional bronze medal in IT; two state competition appearances in IT and cybersecurity.
- **Weymouth High School Robotics:** Designed and programmed robots; team placed first in its bracket.
- **IT Certificate of Excellence:** Recognized for networking and IT skills.