

BAILEY KINNEY

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EDUCATION

Western New England University

Bachelor of Science, Industrial Engineering

• **GPA:** 3.67/4.0

Aug 2025 - May 2028

Springfield, MA

Chicopee High School

High School Diploma

• **GPA:** 3.97/4.0

Jun 2025

Chicopee, MA

• **Achievements:** Graduated with Honors, 9th in Class, AP Scholar with Distinction, Honors

EXPERIENCE

Lightera

Industrial Engineering Intern

Avon, Connecticut • **Jun 2026 - Aug 2026**

• Inventoried \$17,500 in value) with no recent use for relocation to secondary storage.

• Built five Excel tools (incl. a VBA inspection app) for tooling location/recipe/condition tracking, and evaluated five placement options for a new extrusion line.

CVS Health

Shift Supervisor

Springfield, MA • **Jun 2025 - Present**

• Conduct required safety walks and equipment checks 100% on schedule, ensuring compliance with Federal, State retail safety regulations, and CVS corporate policies

• Manage and prepare cash deposits in excess of \$5000 daily

• Trained 4 new associates on POS systems, store protocols, and customer engagement strategies

Cashier

Springfield, MA • **Dec 2024 - Jun 2025**

• Restocked and organized 200+ front-end items weekly to maintain store presentation and product availability.

• Maintained a 99%+ drawer accuracy rate, minimizing discrepancies and supporting loss-prevention goals.

ACADEMIC PROJECTS

WNEU 2025 Bot Bash

2025

ENG-103

• Designed and built two remote-control robots using SolidWorks (5 major custom parts) and Excel for CAD modeling and motor-speed analysis; robots traversed a 4-ft course, climbed a 1.5-inch bump, deployed a 5-inch bridge, and completed retrieval tasks in ~1 minute.

• Developed an autonomous maze-navigation robot using three IR sensors, SolidWorks, and Excel, implementing control logic to traverse a 3-turn maze in ~30 seconds and achieve 2-inch stopping accuracy at the course edge.

Smart Project

2026

ENG-110

• Designed and built "Posture+," a wearable posture-correction device using a Raspberry Pi Pico 2W and dual ADXL345 accelerometers (I2C), validated feature priorities through a 15-person customer survey and weighted concept-screening matrix.

• Developed embedded Python signal-processing logic (median filter, outlier rejection, IIR low-pass filter) to detect slouching in real time, achieving ~90% success rate in testing; presented prototype at the 2026 WNEU Emerging Engineers Expo.

EXTRACURRICULAR

ELUMC Tech Team

Jun 2020 - Present

• Operate and maintain multi-component AV infrastructure (cameras, mixers, microphones, streaming hardware) for weekly services; oversee PowerPoint-to-Zoom broadcast workflows, resolve live audio/video faults, and support team operations while training a new technician.

ELUMC SPRC Committee Member

Nov 2025 - Present

• Served on the Staff/Pastor-Parish Relations Committee, acting as a liaison between congregation and staff to support pastoral care and personnel matters.

HONORS

• **Presidential Scholarship:** June 2025 – Present

• **College of Engineering Dean's List:** Fall 2025-Spring 2026

CERTIFICATIONS

• CSWA Certification

• CSSC Six Sigma Yellow Belt

• OSHA 30

Skills

• **Software:** Solidworks, Excel, Python, MATLAB, 3D Printing

• **Process Methods:** DMAIC, Inventory Management, Six Sigma, Lean Practices