Joshua Farrell

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Summary:	Well-round engineering student with experience in multiple fields and practices looking to further expand his knowledge and connections within the engineering field.

Education: **Western New England University**: Springfield, MA   Expected May 2026
Bachelor of Science in Mechanical Engineering-Mechatronics   GPA: 3.901

Courses:

Mechatronics	Statics & Dynamics	Material Science
Measurement Computing	Mechanics of Materials	Thermodynamics I

Projects: **Autonomous Robotic Gripper and Remote Transmitter**   October 2024 – December 2024
Robotic gripper device that was programmed to autonomously open and close until clamping on an object detected by a pressure sensor. The pressure sensor trigger threshold was set manually through a potentiometer. Project was modified to control the gripper arms by means of remote transmission through a joystick controller and Arduino Cloud control board.

Life Watch   January 2023 – May 2023
Product creation project for Data Acquisition and Processing. Real time heart rate sensor with physical LED display to show user their heartrate zone. Included software that displayed ECG, BPM, and digital display of LEDs. Software could display multiple people's readings simultaneously. Handled responsibility for wiring and software development.

Experience: **Delta Mechanical Contractors**: Warwick, RI
Assistant Project Manager (Internship)   May 2024 – January 2025
- Review and revise submittals to meet project specifications
- Work with vendors to complete Operation and Maintenance data to close out projects
- Keep databases updated and on time through ProCore.
- Responsible for checking shipments received at our company warehouses
- Use Excel and Visual Basic to complete data entry and inventory logs

Western New England University: Springfield, MA
Lead Student Ambassador   September 2022 – Present
- Give daily, informative tours of campus to prospective students and families
- Coach students with diverse needs and backgrounds on strategies for engaging on campus
- Learned the wide variety of programs and resources offered at WNE
- Manage the student workforce on shift and assign tasks to maximize workplace efficiency

Research Assistant   September 2022 – May 2023
- Assisted on the research of path finding drones for search and rescue in firefighting by:
  - Using python and ROS2 with a Linux system to program software for drones
  - Conducting testing and analysis of procedures and progress
  - Presenting research weekly to my supervisor to assess my progress
  - Finding and reading papers relating to our research topics

Computer Skills: Arduino, SolidWorks, MatLab, Python, ProCore, Microsoft Office (Word, PowerPoint, Excel), Visual Basic, Procore, LTSpice, ROS2, Linux, 3-D Printing

Leadership Activities: Varsity Cross Country and Track and Field, The Stageless Players, Academic Progress Monitoring Student Athlete Advisory Committee (SAAC), American Society of Mechanical Engineers