**Brandon A. Sawyer**

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**EDUCATION**

Southern New Hampshire University (SNHU) Manchester, NH

Bachelor of Science, Mechanical Engineering, Minor in Robotics Expected May 2025

**GPA: 3.34**

**Technical Skills**

Design: Autodesk Inventor, Fusion 360, SolidWorks (EPDM, Circuit-Works)

Languages: Arduino, Python, G-Code

Software: COMSOL, NI Multisim, NI LabView, FluidSIM, PTC Mathcad, MATLAB, Microsoft Excel

Certifications: NC3 Festo Advanced Manufacturing

**Related Experience**

Mechanical Engineering Intern, Elbit Systems of America – Defense, Merrimack, NH May 2024 – Present

* Designed testing fixtures, developed PCB layouts, and created presentations for a Vision System project.
* Contributed to 3D modeling, updated Bills of Materials, light sensor validation, and produced part drawings in accordance with ASME Y14.5 standards for a Laser Module.
* Developed rapid designs for experimental testing.
* Created detailed documentation for pre-existing systems.

Engineering Internship, Beswick Engineering, Greenland NH Jan. 2024 – May 2024

* Used NI LabVIEW created software for reading a DAQ and relaying calculated information to the network.
* Redesigned and built housing for an assembly testing station using SolidWorks.

Lab Assistant, SNHU IDEA Lab, Manchester, NH Sept. 2023 – Present

* Using milling and lathe machinery to craft and enhance precision-engineered components.
* Helping to teach other students on how to machine components on a Mill and Lathe.
* Studying and writing G-Code for a Roland MDX-540 CNC.

**Project Experience**

Chief Analyst for Senior Capstone Sept. 2024 – Present

* Developing a laser reflecting mirror to create an image while showing off **Light Steering Technologies Inc.’s** proprietary magnetic joints.
* Leading Research efforts across programming, electrical, and mechanical systems.
* Developing and implementing analytical tools, including F.E.A. for drop tests and Multisim for electrical design.
* Generating in-depth analysis for reports and presentations.

Junior Engineering Design Jan. 2024 – Apr. 2024

* Developed and programmed a Heated Compression Shirt for athletes, optimized for winter conditions.
* Utilized Fusion 360 (Eagle CAD) to design a space-efficient PCB with minimal wiring.
* Led project phases, including serving as Project Manager, from concept through presentation.

**Leadership Experience**

**SNHU Robotics Club,** President (Founding Member)

**ASME** (American Society of Mechanical Engineers Club), Secretary

**AIAA** (American Institute of Aeronautics and Astronautics), Secretary

**Interests**

* Robotics – Creating a micro mouse to navigate through a maze and an LED Cube.
* 3D Printing & Machining – Creating parts for college classes and personal projects.