

Sean Ware

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

Daniel Riccio College of Engineering

Bachelor of Science in Mechanical Engineering

Candidate May, 2027

- Deans Award Scholarship, John and Abigail Adams Scholarship

EXPERIENCE

Richards Design Inc.

Falmouth, MA

CNC Machining

February 2023 - Present

- Setup and operated CNC milling and turning machine jobs using Geometric Dimensioning and Tolerancing

Workcell Robotic Arm Programming

- Programming of industrial robotic arm to autonomously load and unload CNC milling machines
- Coordinating multi-machine communication and training Keyence vision-based object tracking systems

Computer Aided Design

- Creating Solidworks models according to blueprints to feed into MasterCam

Quality Control

- Operating Coordinate Measuring Machine (CMM), height gage, surface roughness testers, manual instruments
- Communicated with machinists, management and customer engineers

Lumasy Inc.

Falmouth, MA

Machine and Fixture Design

December 2023 - Present

- Designed, 3D printed and tested a lathe-converted automatic glass-dome polisher
- Calculated linkage geometries for proper motorized motion, and designed cooling fluid dispensing system
- 3D modeled, printed and assembled various fixtures to retain products for testing
- Designed and produced a successful mounting accessory for underwater REMUS.

Wicked N' Wood Barbeque

Falmouth, MA

Line Cook and Register

June - August 2022

- Learned collaboration and flexibility skills by switching between taking orders and fulfilling them

UMass Aeronautics

Amherst, MA

Mechanical System Design

September 2023 - Present

- Assisted to create various elements of RC airplane to compete in AIAA Design/Build/Fly Competition
- Placed first out of all New England universities in 2024 and 2025

Mechanical System Team Lead

May 2025 - Present

- Led 4-5 mechanical engineering candidates in designing, manufacturing and testing intricate and high-precision assemblies to accomplish mission specific payload tasks
- Learned and utilized CAM to create CNC G-code programs and run custom parts
- Developed technical writing skills through the team's 60-page master report

ACTIVITIES AND EXTRACURRICULARS

UMass Ski and Board Club

Amherst, MA

Board Member

September 2024 - Present

- Attended meetings to on campus events for members, and fundraising opportunities.

Boy Scouts of America

Mashpee, MA

Eagle Scout Rank

August 2023

- Build leadership skills as a patrol leader of 7-8 scouts, learned survival, time-management and life skills.
- 3D modeled Eagle Scout toy box project which led to a smooth and simple assembly

Mashpee Robotics

Mashpee, MA

Captain, Robot Engineer and Builder

2018 - 2023

- Lead team to win High School VEX Robotics Southern New England Championship in 2021 and 2023

SKILLS AND INTERESTS

Technical Skills: CAD/CAM (Solidworks, Fusion 360, Onshape), CNC and Manual Machining, MATLAB, GD&T, DFMA, Critical-Thinking/Problem Solving, 3D Printing, Soccer, Drone Piloting,