

# Ethan Rowe

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Availability: August 2021-December 2021

<https://ethansrowe.github.io/>

## Education

**Wentworth Institute of Technology**, Boston, Massachusetts Expected Graduation August 2022

Bachelor of Science in Interdisciplinary Engineering Concentration in Mechanical Engineering

Minor in Manufacturing Engineering

Minor in Physics

- Relevant Coursework: Manufacturing 1000, Computer Aided Design/Computer Aided Manufacturing, Engineering Thermodynamics, Engineering Fluid Mechanics, Engineering Graphics, Calculus 3, Differential Equations, Linear Algebra

**Simsbury High School**, Simsbury, Connecticut

Graduated June 2018

- 4 years of Project Lead the Way class experience. Classes cover engineering design process, strength of structure and materials, circuit design and real-world applications of engineering concepts
- AP Seminar and AP Research- Open ended, research-based classes

## Skills

- Advanced: Engineering Design Process, MS PowerPoint, MS Excel
- Above Average: Blueprint Reading, 3-Axis Milling Machines, Casting, Material Testing (Instron), SolidWorks/Autodesk, Laser cutting machines, design for additive manufacturing, 3D printer troubleshooting
- Intermediate: G Code, Java Programming, MATLAB
- Competent: Python

## Employment History

**Fusion Optix**, Woburn, Massachusetts

Product Engineering Intern

January 2021 – May 2021

- Utilized 3D printers/CO2 lasers to rapidly prototype LED packages and innovate on customer requests. Rapidly iterated to quickly meet specifications using a design for manufacturing mindset.
- Solicited quotes from numerous suppliers to establish product timelines and improve upon product quality and profitability.
- Improvised solutions to problems using existing hardware to meet impending deadlines.

**Mitsubishi Power Aero**, (Formerly PW Power Systems) Glastonbury, Connecticut

Procurement and Parts Analysis Engineering Intern

May 2020 – August 2020

- Developed tracking tools to compare historical quote data with newly received quotes from multiple manufacturers.
- Identified long-lead-time parts in terms of manufacturability, tooling, and material cost in order to prioritize part procurement.

Manufacturing/Industrial Engineering Intern

May 2019 – August 2019

- Facilitated the industrialization of one of the product lines, by analyzing quality requirements from drawings, and QAD documents
- Created process improvement documentation to better support operators in the assembly, maintenance, or tracking of products.
- Analyzed purchasing data and inventory to prepare reports highlighting risks to delivery dates to critical, long-lead parts.

## Projects

- Development of underwater manipulator for Underwater robot. Used Solidworks to prototype manipulator. Major focus was on ease of use as well as waterproofing the electrical components. Used CamWorks to run milling operations for the final parts. (2019-Present)
- Designed modular Chassis system for Underwater robot. Worked with an interdisciplinary team on SolidWorks to design a modular chassis. Used CNC machines to cut aluminum, and acrylic. (2019-2020)
- Modeled, then fabricated an electric go kart. Raced for the first time in the electrathon race at Limerock park. (2018)
- Participated in First Robotics on team 3464, first year helped construct robot that made it to the world championships. Second year lead the team as one of the captains, helped fundraise \$7,000 during the season. (2018)

## Memberships

- IEEE- Institute of Electrical and Electronics Engineering (2018-Present)