

Reese Highbloom

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EDUCATION

University of Wisconsin-Madison

• Dean's List, 3 Semesters • Member of ASME & Theta Tau Xi Professional Engineering Fraternity • Study Abroad (University of Limerick, Ireland, Spring 24)

Mechanical Engineering B.S. • Madison, WI • GPA: 3.6

WORK EXPERIENCE

Manufacturing Engineering Intern • Internship

05/2024 - Present

ZOLL Medical • Deerfield, WI

- Developed an automated tube cutting station, reducing labor time by 1,500 hours and saving \$50k in total costs annually by designing and implementing a more efficient process for cutting and handling material.
- Created a die certification procedure, improving machine accuracy and ensuring quality consistency across production lines by establishing standardized testing protocols and comprehensive documentation.
- Collaborated on implementing material flow racks, reducing material handling time by 57%, by reorganizing the warehouse layout for improved efficiency.

Undergraduate Research Assistant

09/2023 - 01/2024

Morgridge Institute Biomedical Imaging Lab • Madison, WI

- Led the design and construction of the vacuum electronics system for a cutting-edge metal 3D printer, ensuring seamless operation within high-vacuum environments crucial for microscale precision printing.
- Orchestrated the integration of the vacuum system with the printer's software, ensuring optimal functionality, heightened performance, and enhanced efficiency.
- Acquired proficiency in electrical design, schematic creation, and precision circuit-building techniques to contribute significantly to the advancement of a decade-long project aimed at revolutionizing biomedical manufacturing processes.

Operations and Manufacturing Engineering Intern • Internship

05/2023 - 08/2023

Eaton Aerospace • Bethel, CT

- Optimized manufacturing processes, reducing client lead times and benefiting high-profile clients such as Boeing, NASA, and Lockheed Martin.
- Developed comprehensive manufacturing instructions enriched with visual aids to enhance efficiency.
- Conducted rigorous quality research, identifying waste areas, and initiating targeted improvements.
- Implemented operational enhancements through the strategic integration of cutting-edge technologies, including industrial 3D printing, robotics, and software solutions.

Co-Founder

04/2018 - 09/2022

Drone Zone Media

Co-founded Drone Zone Media in 2018, a premium and cost-effective drone and aerial photography enterprise specializing in tailored media solutions for real estate, special occasions, and corporate events.

- Developed a robust business plan and go-to-market strategy, positioning the company for sustainable growth and market penetration.
- Spearheaded the design and development of the company's digital presence, including a customer-centric website and compelling marketing collateral, to drive customer acquisition.

SKILLS

3D Printing, Automation, CAD/CAM Software, Compliance, Geometric Dimensioning And Tolerancing, Lean Manufacturing, Operations Engineering, Rapid Prototyping, Six Sigma Methodologies, Validation & Verification