Joshua R. Ginsberg

22 Chapman Lane. • Bear, DE 19701 • 302-538-4611 • Joshginz@udel.edu

EDUCATION

Bachelor of Science, Mechanical Engineering

University of Delaware, Newark, DE (May 2024, GPA 3.20, In-Major GPA 3.23)

MACHINE DESIGN PROJECT

University of Delaware - Machine Design Course Fall 2022 - Term project (Pill Bottle Filling and Assembly Machine)

Project Scope - To design, manufacture, and test a compact, automated monoblock pill bottle fill system for small batch manufacturers, including conveyance, pill filling, and capping operations.

- · Pill Filling Team Captain
- · Conceptualized a functioning pill-to-bottle system while dispatching 30 pills each time. Developed spiral guide rail mechanism to complete project goal.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF DELAWARE, NEWARK, DE **2022 – Present** *Fabrication Laboratory Employee - 3D Printing Specialist* The University of Delaware owns and operates the Mechanical Engineering Design Studio, which houses the Fabrication Laboratory. A manufacturing lab for 3D Printers, Laser Cutters, Vacuum Former, and a Water Jet.

Demonstrated Expert Level Maintenance and Usage:

- · Operated complex machinery and produced successful products.
- · Successfully repaired 5 3D Printer models.

Proven Leadership:

- · Streamlined guidelines to improve future employees' efficiency.
- Advised colleagues on 3D Printer maintenance and future usage.

Technology Management:

· Maintained and efficiently used three Stratasys F170s, five MakerBot Replicators, a Formech 508DT, and a WAZER water jet.

UNIVERSITY OF DELAWARE, NEWARK, DE 2023 - Present Lead Control Systems Teaching Assistant

Guided students in understanding control theory and application. Developed hands-on lab exercises. Provided support in MATLAB and Simulink, Enhanced practical and theoretical knowledge.

Demonstrated Advanced Technical Proficiency:

- Expertly applied control theory in lab settings, enhancing student comprehension and practical skills.
- ·Led workshops on MATLAB/Simulink, improving students' analytical and problem-solving abilities.

Proven Teaching Excellence:

- Developed innovative lab exercises, significantly boosting student engagement and learning outcomes.
- ·Provided tailored assistance and mentorship, contributing to improved academic performance in control systems.

Effective Communication and Leadership:

- ·Simplified complex concepts, making them accessible to a diverse student body.
- ·Collaborated with faculty to refine course materials, ensuring a more effective learning experience.

WAWA, INC., MEDIA, PA 2023 - 2023 Wawa Facilities - Equipment Intern

Managed HVAC/R issues across store locations during peak summer demand and provided technical support for proactive equipment replacement projects and costing analysis across diverse platforms and geographies.

Demonstrated Expert Level Maintenance and Usage:

- · Conducted data analysis of HVAC/R equipment vendors, optimizing maintenance strategies and minimizing operational costs.
- · Collaborated with the Facilities team to implement preventive maintenance schedules, resulting in increased equipment reliability and reduced downtime.

Proven Leadership:

· Led communication efforts with internal partners to address equipment issues and efficiently managed warranty resolution.

Technology Management:

· Leveraged technical expertise to support equipment replacement projects and utilized technology tools for streamlined data organization and data-driven decision-making.

TECHNICAL SKILLS

- Laboratory Experience
- 3D Printing Expertise

- Data Modeling
- Desire for Learning

- Solidworks
- Matlab/Python