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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.
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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.

WAWA, INC., MEDIA, PA 2023 - Present *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

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|-------------------------|-----------------------|-----------------|
| • Laboratory Experience | • Data Modeling | • Solidworks |
| • 3D Printing Expertise | • Desire for Learning | • Matlab/Python |