
BRODERICK BOLYN

Pottstown, PA 19465 ♦ (484) 366-5354 ♦ BroderickBolyn@gmail.com

PROFESSIONAL SUMMARY

I'm a Mechanical Engineering graduate with experience in product design, mechanical systems, and technical writing. I'm interested in turning ideas into practical solutions and pay close attention to detail. With strong problem-solving skills and a solid work ethic, I'm comfortable working in fast-paced environments and ready to contribute to high-value projects.

SKILLS

- Mechanical Engineering Principles
- Technical Drawing
- SOLIDWORKS
- Project Management
- Mechanical Product Design
- Manufacturing Process
- Data Collection and Analysis
- Technical Writing

WORK HISTORY

Staff Engineer, 05/2023 - 08/2024

Environmental Maintenance Company – 1420 E Mermaid Lane, Glenside PA 19038

- Prepared technical proposals, scientific reports, and drawings for new industrial projects.
- Analyzed investigation data to determine pollution and contamination levels.
- Performed environmental site assessments and provided remediation recommendations.
- Inspected industrial and municipal facilities and programs to evaluate operational effectiveness and determine compliance with environmental regulations.

EDUCATION

Bachelor of Science in Mechanical Engineering: Expected in 05/2025

The Pennsylvania State University - Reading, PA | 3.3 GPA

Relevant Coursework: Dynamics, Strength of Materials, Thermodynamics, Fluid Dynamics, Machine Design, Heat Transfer, Vibrations, Engineering Design, Aerodynamics, Mechanics of Locomotion, System Dynamics.

Projects:

Mechanical System Design- Designed a mechanical system with CAD modeling, structural analysis, and material selection. Researched components for optimal performance and cost, and compiled a report on design decisions and performance.

Vibrations Analysis of a Mechanical System- Conducted vibration analysis using theoretical and computational methods to evaluate system behavior. Utilized MATLAB and experimental data to assess response, recommend design improvements, and compiled a detailed report.

ACTIVITIES

Penn State Berks NCAA Division III Mens Basketball Team, 10/2021 - 02/2025

- Managed a demanding academic schedule alongside athletic training, competition, and team commitments.
- Developed leadership, teamwork, and communication skills in a high-pressure environment.
- Learned to adapt quickly, solve problems under pressure, and manage time while competing at a high level.