

Owen Diamond

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EDUCATION

University of Notre Dame | Notre Dame, IN

May 2027

Bachelor of Science

GPA: 3.85

Major: Mechanical Engineering | Minor: Engineering Corporate Practice, Energy Studies

EXPERIENCE

Freudenburg Group | Asheville, NC

August 2024 – July 2024

Summer Intern

- Shadowed plant's maintenance department chief engineer, solving on floor and tech issues. Drafted/proposed vibration analysis project (estimated 250k) to improve asset longevity and decrease unscheduled machine downtime

EFD Lab Marine Stabilization Platform Project | South Bend, IN

December 2023 – Present

Research Assistant

- Manufactured aluminum stabilization cage and designed and constructed waterproof cases for vital, delicate sensors as well as utilizing skills in python, MATLAB, and SolidWorks to provide support in many tasks around the lab

August Construction Solutions | Raleigh, NC

May 2021 – June 2023

Construction Site Superintendent and Data Manipulator

- Organized and manipulated over 10 years of invoice and associates' contact information via Excel, improving efficiency of project organization
- Led both commercial and domestic construction sites as superintendent, organizing personnel, delegating tasks, writing reports of what and how jobs were accomplished

LEADERSHIP AND ACTIVITIES

Grand Challenge Scholars Program | South Bend, IN

August 2024 – Present

Member

- Developed a plan of transformational learning and research to address program directives
- Fostered community engagement of project topics by working with local high schools and Boys and Girls Clubs

Pickleball Club of Notre Dame | South Bend, IN

August 2024 – Present

President

- Managing an athletic club of ~700 members, advertising club events, collecting club dues, and fundraising
- Organizing bi-weekly on-campus practice and one off-campus practice which requires developed contracts between local athletic facility and school student activities management

Make-A-Wish Eastern North Carolina | Wake Forest, NC

September 2022 – January 2025

Project Leader

- Led colleagues and funding of a 4k Color Run in association with the Make-A-Wish Foundation of Eastern North Carolina
- Interacted with 15+ local businesses and increased funding from years before joining the program with the implementation of new strategies for fundraising
- Gained skills in project management, advertising, networking, and developing business relationships
- Raised roughly \$17,000 with over 150 participants allowing us to grant three wishes to children with terminal illnesses

RELATED COURSEWORK OR PROJECTS

Engineering | University of Notre Dame

August 2023 – Present

- Developed a valve by utilizing the Engineering Design Process with 2 iterations
- Used SolidWorks and Excel in collaboration with 3 fellow engineers to produce a fluid relief valve that achieved the guidelines of the project with high marks in relative efficacy

Engineers Without Borders | University of Notre Dame

September 2023 – November 2024

Member of Local and Abroad Project Development

- Utilized skills in SolidWorks to model and assess the volume of materials required in construction project in Ecuador
- Gathered and organized traffic data from 2018 – 2023 to help interpret and make decisions

SKILLS

Technical: Java, JavaScript, MATLAB, Python, SolidWorks, Fusion 360, AutoCAD, Microsoft Office 365 and Google Workspace

Practical: Machining, Woodworking, Manufacturing Process knowledge