

Rian Healy

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EDUCATION

Purdue University Bachelor of Science in Industrial Engineering May 2024 - Present
Emphasis: Data Analytics
Current Overall GPA: 3.2/4.0

EXPERIENCE

Cronus Technologies Inc. - Engineering Intern; Houston, TX June 2025 - August 2025

- Optimized DNV formula for anode resistivity to extend cathodic protection coverage to 300+ meters of pipeline.
- Developed Python script to calculate wave breaking heights for over 760,000 simulated offshore wave cases.
- Supplied training data for On-Bottom Stability algorithm to help save upward of \$500K in project costs.

Direct Home Care Supply - Warehouse & Supply Organizer June 2023 - August 2023

- Packaged and distributed medical devices to assist elderly patient care across multiple distribution points.
- Managed outbound purchase orders and built client relations with hospices and retirement homes.

Club Westside - Youth Sports Supervisor June 2025 - July 2025

- Managed the front desk providing basic instruction, and ensuring equipment was available for young members.
- Helped supervise over 100 children in a fast-paced, active sports facility, ensuring safety and positive participation.

PROJECTS

Purdue Orbital — Launch Structure Design Team - Member August 2025 - Present

- Engineered the launch mechanism for a student-led rocket targeting for 50+ km in altitude.
- Designed and sized structural components using Autodesk tools including AutoCAD and Fusion 360.

LEADERSHIP EXPERIENCES AND ACTIVITIES

Hydro Power Collegiate Competition - Siting Research Lead Fall 2025 - Spring 2026

- Directed siting team in a national collegiate competition to modernize hydropower for non-powered dams in the U.S.
- Evaluated site feasibility and design parameters to convert non powered dams into hydroelectric power generators.
- Managed a multi-phase-selection of 100+ dam sites, coordinating team research to deliver the most feasible option.

Nexus Consulting Student Organization - Analyst Spring 2025 - Present

- Analyzed business operations and proposed strategic improvements for student organizations at Purdue.
- Collaborated with cross-functional teams to deliver data-driven solutions to student-run organizations.
- Presented findings and recommendations in professional reports and presentations.

HONORS

- Purdue Honors College Engineering Fall 2024 - Present
- National Honor Society, Stratford High School Fall 2022 - Spring 2024

ADDITIONAL INFORMATION

Computer Skills: Python, MATHCAD, MATLAB, Excel, Word, PowerPoint, Auto CAD

Interests: Web Design, Architecture, Intramural Baseball and Basketball, Piano

Work Eligibility: Eligible to work in the U.S. with no restrictions