

# Alex Vento

(339) 226-2492 | avento@nd.edu | 1015 N Eddy St South Bend, IN 46617 | [LinkedIn](#)

## EDUCATION

**University of Notre Dame** | Notre Dame, IN May 2026  
*Master of Science in Engineering, Science & Technology Entrepreneurship (ESTEEM)* GPA: 3.73

**University of Notre Dame** | Notre Dame, IN May 2025  
*Bachelor of Science* GPA: 3.39  
Major: Mechanical Engineering

## TECHNICAL AND LANGUAGE SKILLS

**Technical:** Matlab, Python, Excel, PowerPoint, Solidworks CAD/CAM, Bluebeam Revu, Procore, CNC machining, AutoCAD, Carrier HAP, Optical Metrology

## EXPERIENCE

**Engineering Dynamics Corporation** | Wailuku, Hawaii June 2024 – August 2024  
*Engineer and Draftsman*

- Created and updated construction drawings for state and county review or distribution to contractors.
- Collaborated with a mentor on multiple site visits to document existing infrastructure in order to provide construction drawings for permitting and county records.
- Designed HVAC and wastewater systems in accordance with local and national codes using Carrier's HAP Software..

**ARCO/Murray National Construction** | Downers Grove, Illinois June 2023 – August 2023  
*Project Manager*

- Coordinated closely with a lead project manager on buying out subcontractors, responding to RFIs, completing takeoffs, and completing closeout documents.
- Competed in a group-based capstone project, achieving a first-place finish for a presentation about integrating artificial intelligence, specifically language learning models, into the construction industry.

**Dorvin D. Leis Co.** | Kahului, Hawaii June 2022 – August 2022  
*Project Manager's assistant*

- Improved project manager workflow by handling relevant tasks, including take-offs, RFIs, material acquisition, and TAB, while building relevant skills in Bluebeam Revu and Procore.
- Designed a valve train to connect chilled water supply and return to fan coil units in the Kahului airport during a renovation.

## LEADERSHIP AND ACTIVITIES

**Robot Football** | University of Notre Dame October 2021 – May 2023  
*Pit Crew*

- Assessed and carried out repairs or updates on robots that were not operational, needed new parts, or had become broken during practice events.
- Performed evaluations and key repairs on robots during the 2022 robot football combine and playoffs, helping Notre Dame secure a second-place finish in the playoffs.

## RELATED COURSEWORK OR PROJECTS

**Mechanical Engineering Senior Design Capstone** | University of Notre Dame January 2024 – May 2025

- Led electronics design for a robot that navigated an obstacle course and autonomously placed blocks to build a house. Focused on circuit design, sensor integration, software development, and motor control, also assisted with virtual model creation and fabrication of the final robot

**Laser Precision Manufacturing Laboratory Research** | University of Notre Dame August 2024 – December 2024

- Used optical metrology to parameterize the capabilities and better understand the settings of a MOPA laser to create the smallest possible engraving of the Notre Dame monogram on a given substrate.