

# Jonathan Baldini

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## EDUCATION

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**Purdue University, College of Engineering** **West Lafayette, IN**  
**Bachelor of Science, Mechanical Engineering** **May 2028**  
• Dean's List (All Semesters) **GPA: 4.0**

## ENGINEERING EXPERIENCE

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**University of New Hampshire** **Durham, NH**  
**Research Assistant** **July 2023 – August 2023**  
• Performed free-release testing of 1/70<sup>th</sup> scale model of a Floating Offshore Wind Turbine (FOWT) to generate digital twin for continuous, remote analysis  
• Explored the creation of FOWT digital twin in MATLAB which allowed for predictive maintenance, enhanced operational safety and efficiency, and increased energy production reliability

## PROFESSIONAL EXPERIENCE

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**Academic Success Center** **West Lafayette, IN**  
**Supplemental Instruction Leader** **May 2025 - Present**  
• Developed session plans with adherence to the SI model to improve student engagement and deepen understanding of material  
• Implemented a course-wide GroupMe to encourage collaboration and gain insight into needs of the student

## INVOLVEMENT

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**Purdue Italian Club President** **May 2025 – Present**  
• Spearheaded the club's first involvement in the International Food Bazaar, coordinating budget, event approval forms, health department correspondence, and recipe research  
• Oversaw expansion of club fundraising involvement and social presence to grow member attendance and allow a larger budget allocation per event  
• Established a common officer spreadsheet to streamline event planning and task management, and to centralize club communication

**Purdue ASME Energy Club – Fuel Cell Subteam** **January 2025 – Present**  
• Compiled a repository of textbook publications and research articles dedicated to the design and manufacture of hydrogen fuel cells with proton exchange membranes (PEMs)  
• Generated a fuel cell BOM to investigate the feasibility of live implementation  
• Formulated a business plan for a hypothetical at home hydrogen fuel generation device, which was pitched in the EnergyTech University Prize competition

**University of New Hampshire** **Durham, NH**  
**Dinah Whipple Academy Program Mentor** **July 2023 – August 2023**  
• Mentored a group of 10 minority students interested in learning STEM through guided Black history discussions and physics explorations with creation of Rube Goldberg machines  
• Pitched methods to improve information fidelity which reinforced program message and student retention

**University of New Hampshire** **Durham, NH**  
**Tech Camp Counselor** **July 2023 – August 2023**  
• Instructed DOT-funded workshop for children aged 6-8 to teach participants about federal infrastructure along with civil engineering practices  
• Designed and built models of drawbridges for the exploration of unique bridge building concepts

## RELEVANT COURSEWORK

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**Graphical Communication and Spatial Analysis** **January 2025 – May 2025**  
• Operated with a Product Data Management (PDM) system (Siemens Teamcenter) to support design and collaboration, and mitigate waste to mimic an industry Product Lifecycle Management (PLM) setting  
• Effectively utilized Siemens NX to model to design for change by infusing design intent throughout the use of parameters, design tables, and dimensioning strategies

## SKILLS AND EXTRA COURSEWORK

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**Technical Skills:** Java, MATLAB, Python, SolidWorks, and NX  
**Languages:** Italian and Spanish Massachusetts State Seal of Bilingual Proficiency  
**Courses:** Differential Equations, Thermodynamics