

Conrad Stable

New York City Metropolitan Area | (631) 372-6950 | cstable@purdue.edu

Education

Purdue University - West Lafayette, IN

GPA: 3.3

Bachelor of Science in Mechanical Engineering, Minor in Environmental and Ecological Engineering | May 2025

Master of Science in Mechanical Engineering [Energy and Transport Sciences Laboratory] | May 2027

Work Experience

Brewery Operations Intern [Packaging] | Molson Coors | Shenandoah, VA | May 2024-August 2024

- Lowered Quality Holds by Designing and Implementing Automated Hot Flush Systems to Active Bottle Filler Systems
- Improved Water Savings ~1.75M Gallons (monthly) by Designing and Installing Synergex Dispersion System for All Lines

Engineering Intern [Electrical Testing] | Micros STS | Milpitas, CA | June 2023-July 2023

- Generated Verigy 93K microcontroller testing programs for high reliability defense and aerospace applications
 - Helped coordinate air filtration system in Clean Room to account for oil-based contaminants
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Leadership Experience

ASME Director [ENERGY Design Team] | American Society of Mechanical Engineering | August 2023-Present

- Leading 40+ Member Team to design, construct, and test "RAINERGY"; yields sustainable drinking water and electrical power
- Starting Solar Team and Hydrogen Fuel Cell Team, competing in EnergyTech and initiating a Fuel Cell Competition respectively

Professional Development Mechanical Engineering Mentor | ME 297 | January 2023-Present

- Mentoring 8+ new Mechanical Engineering sophomores each semester on career, academic, and personal aspirations
- Advising resume writing, LinkedIn profiles, academic and industry networking, and professional goal planning

Team Leader + Rowing Athlete | Purdue Varsity Crew | September 2021-March 2023

- Raced Top 6 nationally in 8-person boat at National Collegiate Rowing Championships (ACRAs)
 - Dedicated over 20 hours/week including team practices, supplemental personal training, and Regattas
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Team Projects

CFD + AI-Driven Generative Design [Undergraduate Research] | January 2024-Present

- Researching under Dr. Panchal to use AI Generative Design for EV and Thermally-Significant Battery Design
- Teaching CFD methodology using Ansys Fluent and Discovery to 100+ peers and produced 4+ hours of tutorials
- Designed, analyzed, manufactured, and tested a bicycle suited to pass UCI regulations and ISO standards

Engineers Without Borders [Structural Engineer – Rubona, Rwanda] | August 2023-May 2024

- Implementing multiple Water Distribution Systems in Rubona, Rwanda in collaboration with community partners
- Utilizing CAD, Fluid dynamics, Geotechnics, Construction Management, etc. for design review and system planning

Purdue Space Program - Liquids [Structures] | August 2023-May 2024

- Setting Electrical Routing and System Harness precedent for "CraterMaker Special" using NX
 - Modeling rocket trajectory and stress force calculations during and after lift-off using RASAero II and Matlab
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Personal and Professional Skills

- **CAD** (ANSYS Fluent + Discovery, Autodesk Fusion + AutoCAD, SolidWorks, Siemens NX, RASAero II)
- **Professional and Scholastic Mentoring**
- **AI Generative Design & Electrical Routing**
- **Strategic & Personable Writing**
- **Coding** (Matlab, Python, C Programming, Excel)
- **3D Rendering** (Unreal Engine 5, Blender)
- **Social Media Market Engineering**
- **Emotional Intelligence & Patience**
- **Project Management & Contracting**