

Ethan Stone

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Education

Purdue University - West Lafayette, IN

Bachelor of Science in Mechanical Engineering

Expected May 2025

GPA: 3.69/4.0

Professional Experience

Caterpillar - Electrical Harnessing Intern for Tracked Products - Tucson, AZ **May 2024 - Present**

- Commonizing over 250 ground straps across 20 models to reduce parts and factory mistakes
- Created ground strap commonization protocol for future design preventing future mistakes
- Facilitated installation of 10 electrical harnesses on mining shovel working with 3 different teams

Daimler Truck - Manufacturing Engineering Intern - High Point, NC **May 2023 - Aug 2023**

- Collaborate with a team of 10 to ensure plant runs smoothly and implement future plant projects
- Fix largest pre-paint chassis errors by working with teams to update online tracker and instructions
- Create a plant layout in CAD to help the ME team ensure future equipment installations fit
- Learn how an automotive company functions by understanding the decisions and priorities

Duke Energy - Technical Engineering Intern - Edwardsport, IN **May 2022 - Aug 2022**

- Worked with a team of 50 coworkers to optimize runtime and reduce carbon emissions at power plant
- Developed and ran lab tests to validate alternative chemicals potentially saving the plant \$1.5 million
- Performed data analysis on pumps to improve operational efficiency to reduce downtime
- Created inspection program for flex hoses in accordance to API standards to prevent failures

Farm(X) - Manufacturing Intern - Mountain View, CA **May 2021 - July 2021**

- Collaborated with 20 coworkers to transform agriculture with sensor based automated irrigation
- Managed assembly and inspection for weather resistant irrigation sensors for farms to reduce failures
- Selected to lead the implementation of the companies first ever inventory management system to accurately track inventory and parts for all components and assemblies

Campus Involvement

Purdue Electric SAE Racing Team - Battery Team Lead(2023) & Treasurer(2024) **Aug 2021 - Present**

- Managing 70k budget working with subteams to create BOMs and sponsors to invest in our team
- Designed a 319V battery comprising of 4 modules of 5s19p 21700 cells with custom cooling plates
- 10lb reduction of battery weight by reducing cell spacing and validating strength through simulations
- Increased battery efficiency 25% via developing a resistance matching protocol & removing weak cells
- Worked with team to build a battery to pass SAE rules to allow car to drive for the first time in 5 years
- Doubled battery team by investing in new members and fostering a learning environment

Purdue Run Club - Apparel Officer **Nov 2022 - Nov 2023**

- Compete in cross country and track races across the country with team finishing 5th in the nation
- Elected as the Apparel Officer responsible for designing apparel for races, training and team spirit
- Created apparel designs from scratch for 200+ team members, through self-directed design learning
- Communicated with multiple vendors and team members to finalize designs and orders

Technical Skills

- **Development tools:** Solidworks, Fusion 360, OnShape, Creo, Teamcenter, Excel, Microsoft Word, PowerPoint, MatLab, PI Datalink, PI Processbook, Maximo, Altium, Smartsheet
- **Coding Languages:** Python, Javascript, Html, C, C++