

Eric Martin

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Springfield, IL, USA

Education

University of Wisconsin-Madison (USA)

Sep. 2019 - May 2024

- **B.S. Mechanical Engineering**, International Engineering Certificate
- Relevant Coursework: Energy Sustainability & Technology, Design of Machine Elements, Mechanics of Materials, Metals & Automation, Measurements & Instrumentation, Intercultural Competence
- GPA: 3.64/4.0; Dean's Honor List

Work Experience

NASA Innovative Advanced Concepts (UW-Madison), **Undergraduate Researcher**

Aug. 2022 - Apr. 2024

- Led a cross-functional team of 4 in developing a radiation shield for interplanetary spacecraft by managing timelines, delegating work, and presenting deliverables.
- Modeled force distributions to conduct failure analysis, ensuring adherence to aerospace standards.
- Validated structural prototypes using CAD, topology optimization, and finite element analysis.

Audi AG (Ingolstadt, Bavaria), **Press Maintenance Engineering Intern**

June - Sep. 2023

- Developed the condition monitoring platform with PTC ThingWorx to fully digitalize global press factory operations, enhancing data integration and accessibility.
- Managed maintenance alerts through real-time monitoring of 10+ metal forming presses.
- Reported technical drawings and diagrams, production portfolios, and cost analyses in German.

Engineering Industries Inc. (Verona, WI), **Project Engineering Co-op**

May 2021 - Feb. 2022

- Designed and fabricated 28 custom fixtures for the assembly and quality control of production parts.
- Documented customer approval specifications, company-standard guides, and obsolete machinery.
- Built custom components for injection molding presses, robotic end-of-arm tooling, and industrial storage solutions with metalwork and 3D printing.

Other Experience

Hamburg University of Applied Sciences, GE3 **Exchange Student**

Mar. - July 2022

- Led an international team of 5 in conceptualizing, designing, and pitching a novel kitchen gadget during a Systematic Product Development course.
- Completed a Metal Cutting Technology elective covering theory, materials, and economics.

Theta Tau (Xi) Professional Engineering Fraternity, **Community Service Chair**

Jan. - May 2021

- Planned and hosted events with Big Brothers Big Sisters of Dane County.

Additional Info

Relevant Skills: Additive Manufacturing, CAD (SolidWorks), Machining, MATLAB, MS Office, PTC

Languages: English (native), German (professional working proficiency)