

Eric Martin

+1 217 416 5897 • ejm001@proton.me • Springfield, IL, USA

Curriculum Vitae



Name: Eric Martin
Date of Birth: 01.03.2001
Place of Birth: Springfield, Illinois, USA

Education:

2019 - 2024 University of Wisconsin-Madison
B.S. in Mechanical Engineering
Certificate in International Engineering
GPA: 3.64/4.0

2015 - 2019 Springfield High School
Sangamon CEO Entrepreneurial Program,
German Club, Finance Club Co-founder
AP Calculus: 5/5, AP German: 5/5, ACT: 33/36
GPA: 3.96/4.0, Class Rank: 10/387

Languages:

English Native

German Professional Working Proficiency

Practical Experience:

2022 - 2024 Undergraduate Researcher
NASA Innovative Advanced Concepts (UW-Madison)
Led a cross-functional team in developing a magnetic radiation
shield for crewed, interplanetary spacecraft

Summer 2023 Press Maintenance Engineering Intern
Audi AG (Ingolstadt, Bavaria)
Developed the condition monitoring platform to fully digitalize
global press factory operations

2021 - 2022 Project Engineering Co-op
Engineering Industries Inc. (Verona, WI)
Built custom components and fixtures for injection molding
presses, production parts, and industrial storage solutions

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Other Experience:

Summer 2024	Tennis Instructor Madison School & Community Recreation Led beginner and advanced lessons for all ages
Spring 2024	Energy, Sustainability, & Technology Course Final Project Conducted a techno-economic analysis of an airborne wind energy application, calculating a levelized cost of electricity with MATLAB and proving the manufacturer's claims
Spring 2023	Mechanics of Materials Course Final Project Led a team of 4 in experimentally determining the layering orientation of 3D-printed parts that would maximize strength
Fall 2022	Computer-Aided Engineering Course Final Project Optimized the strength of a drone housing using SolidWorks, Finite Element Analysis, and Topology Optimization
Summer 2022	Systematic Product Development Course Final Project Led an international team of 5 in conceptualizing, designing, and pitching a novel kitchen gadget using Creo and Windchill
Spring 2021	Theta Tau Professional Engineering Fraternity Community Service Chair Hosted events with Big Brothers Big Sisters of Dane County

Abroad Experience:

Summer 2023	Audi-Ingolstadt Internship
Summer 2022	University of Applied Sciences-Hamburg Exchange Student
Summer 2018	Gnadenthal Gymnasium-Ingolstadt Exchange Student

Skills:

CAD Software (SolidWorks, Creo)
CAE Software (MATLAB, EES, Ansys)
Finite Element Analysis, Topology Optimization
Metal & Plastic Fabrication (Machining, 3D-Printing)
Microsoft Word, Excel, PowerPoint
PTC ThingWorx, Windchill

Hobbies:

Cooking, Cycling, Music, Running, Skiing, Tennis