

MAX DITTMAN

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EDUCATION

University of Cincinnati

Bachelor of Science, Aerospace Engineering; Minor: Astrophysics, Data Analytics

- Primary Coursework: Gas Dynamics, Aerodynamics, Dynamic Modeling

Graduating: May 2027

GPA: 3.43

North Central State College

Associates of Science, Mechanical Engineering Technology

Graduated: May 2023

GPA: 4.00

EXPERIENCE

Toyota Motor North America

Connected Technologies | *Research and Design*

May 2025 – August 2025

- Mapped and optimized 2 OneToyota App flows; improving UX/UI with expected 20% reduction in scheduling time
- Benchmarked 4 OEM apps and in-vehicle software to identify gaps and developed effective countermeasures
- Worked with Toyota SmartPath Rental team to resolve 15+ issues and tickets in dealer network
- Contributed to an 834% system increase by providing onboarding support and collaborating with development teams
- Applied Toyota “Go and See” practice to understand stakeholders at 2 dealerships and 2 production centers
- Engaged within Research and Development, networking across the organization on two different campuses
- Volunteer weekly with UMAISE for adaptive sports through Toyotability business partner group

Bodyweld Production Engineering | *Toyota Motor Manufacturing Indiana*

Aug 2024 – Dec 2024

- Developed detailed 30+ page process specification and instruction for new BEV fender assembly
- Benchmarked fender processes at TMC Japan and Toyota Motor Manufacturing Kentucky
- Took training on Toyota Production System, Toyota Process Creation, and Improvement Methods
- Performed reach and feasibility studies on Kawasaki robot and weld tooling for 3 different processes
- Identified 3 critical errors in late-stage planning and created countermeasures saving an estimated \$250,000+
- Organized 6 professional development events aimed at educating co-ops and facilitating networking

Red Bull – Student Marketeer | Cincinnati, Ohio

Feb 2024 – Present

- Increased brand exposure by sampling 15,000+ cans at 7 different collegiate campuses during large market moments
- Supported sales by auditing existing and new accounts to increase product volume in restaurants and bars

MK Metal Products – Design Intern | Mansfield, Ohio

May 2023 – Aug 2023

- Created 3D models and prepared drawings for manufacturing readiness on high impact projects
- Conducted 4+ in-house runoffs for clients such as Honda, Goodyear, and Michelin prior to handoff

SKILLS

Mechanical: Solidworks, StarCCM+, Catia, Inventor, AutoCAD, Welding, 3D Printing, Technical Documentation

Programming: Python, Jira, Confluence, MATLAB, Figma, VBA, Microsoft 365

PROJECTS

NCSC Surrogate Brain Research Project

Aug 2022 – May 2023

- Led research project to design a surrogate brain aimed at measuring rotational acceleration through trauma
- Collaborated with stakeholders like NHTSA, Honda, Humanetics, NCSC, and Carleton University

Eagle Scout Project

Nov 2020 – July 2021

- Directed and orchestrated a substantial service project, involving 250+ man-hours and 60+ dedicated volunteers

ACTIVITIES

Engineers Without Borders

Sept 2023 – Dec 2024

- Used AutoCAD and Google Earth to design and map out layouts for 2 gravity fed water systems
- Reviewed data to create documentation aimed at optimizing water travel predictions

FIRST Robotics

Aug 2019 – May 2023

- Led fast paced iterative design process through extensive CAD drawings and rapid prototyping
- Fabricated sheet metal parts through CNC machining and 3D printing of large components
- Qualified 1st at Miami Qualifier and peaked at 5th position globally in 2020 Infinite Recharge Challenge

AVAILABLE FOR CO-OP: SPRING 2026