

BRECKIN PRICHARD

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EDUCATION

Central Michigan University – Mount Pleasant, MI

Expected: May 2026

Bachelor of Science in Mechanical Engineering (Minor in Mathematics)

GPA: 3.79

Relevant Coursework: Machine Design, Mechanics of Materials, Mechanical Vibrations, Engineering Materials

WORK EXPERIENCE

Ford Motor Company, Dearborn, MI

May 2025 – Aug 2025

Vehicle Manufacturing Engineering Final Assembly Intern

- Designed and supported structural integration of front-end assemblies, connecting body structures and critical vehicle components to improve manufacturing and serviceability.
- Created and modified parametric CAD models and detailed drawings for tooling and assembly concepts.
- Used VR-based manufacturing layout planning to evaluate machinery and operator access, eliminating 100+ hours of physical rework and saving \$10k+ in prototype costs.
- Developed an AI assistant to search and summarize 2000+ pages of manufacturing standards, improving engineering response time.

Ford Motor Company, Dearborn, MI

May 2024 – Aug 2024

Vehicle Manufacturing Engineering Final Assembly Intern

- Optimized door assembly tooling and layout for an upcoming model year vehicle; validated concepts through 5 physical trials with 3D-printed fixtures.
- Evaluated new production devices for 8 assembly plants to reduce operator error and improve quality.
- Collaborated with controls and software teams to provide feedback on pre-launch manufacturing tools.

CAMPUS INVOLVEMENT

Central Michigan University, Mount Pleasant, MI

Aug 2025 – Present

Facilities Maintenance Assistant

- Designed 50+ additive manufactured parts for fixtures, mounts, guards, and equipment repairs.
- Maintained and repaired 1500+ assets, including machinery and shop equipment.
- Created custom brackets, mounts, and guards to restore and improve equipment functionality and safety.
- Led \$5000 prototyping upgrade by evaluating, purchasing, and commissioning three Bambu Lab H2S printers.

Chippewa Racing - Formula SAE | President (2025) – Mount Pleasant, MI

Aug 2022 – Aug 2025

- Led design and fabrication of competition-ready mechanical structures, including carbon-fiber nose cone and driver seat using vacuum-assisted resin manufacturing.
- Managed large CAD assemblies and coordinated drawing releases across subsystems.
- Worked hands-on with machining, composites, and assembly to validate designs.
- Secured \$10k+ in sponsorships and led design presentations at competitions.

Chippewa Performance - Baja SAE | Member – Mount Pleasant, MI

Aug 2025 - Present

- Designed and fabricated a mass-efficient welded steel CVT guard to protect rotating drivetrain components.
- Performed full teardown and reassembly to verify fitment and manufacturing accuracy across 15 subassemblies.
- Developed a proper maintenance and shop safety procedure.

SKILLS

- Advanced Parametric CAD Modeling (NX, Fusion 360, Inventor)
- Additive Manufacturing and Rapid Prototyping
- MATLAB Programming and Data Analysis
- AI Tools for Manufacturing Optimization
- Product Design and Manufacturing Processes
- Basic FEA and Structural Simulation
- BetaFlight Programming

HONORS AND RECOGNITION

Dean's List (6 semesters), Central Michigan University

Janet and Richard Gorman Scholarship Recipient (MPPA), 2023-2024

Ford Intern Better Tomorrow Challenge High Achiever, Ford Motor Company, (2024, 2025)