

Amir Williams

847-942-6167 | amir.williams@outlook.com

Education

Western Michigan University
Bachelor of Science in Mechanical Engineering
GPA 3.66

Kalamazoo, MI
Expected Graduation, Fall 2027

Kalamazoo Valley Community College
30 credits to satisfy general education portion of WMU ME degree
GPA 4.0

Kalamazoo, MI
Fall 2022, Summer 2023

Technical Skills

- **CAD/Design:** SolidWorks (assemblies, FEA, technical drawings), AutoCAD (coursework), 3D printing & prototyping
- **Programming:** Python (developing), MATLAB (coursework), microcontrollers (Raspberry Pi, Arduino)
- **Engineering Tools:** Machine design, machining & fabrication, welding, root-cause analysis
- **Professional Skills:** Team leadership, project management, technical documentation

Work History

Process Engineer Intern - Gentex Corporation

Zeeland, MI, April. 2024 - Aug. 2024

- Engineered and implemented a new production-floor machine from concept through deployment.
- Developed CAD models, assemblies, and engineering drawings in SolidWorks.
- Led continuous improvement projects to support team members.
- Prototyped components using 3D printing.

Chief Engineer - Bronco Baja Racing

Kalamazoo, MI, Sept. 2023 - Present

- Lead 30-member engineering team in the design and integration of an off-road vehicle.
- Oversee chassis, suspension, drivetrain, and controls subteams to ensure technical alignment.
- Direct design reviews and enforce compliance with SAE Baja competition standards.
- Directed CAD development in SolidWorks, producing assemblies and technical drawings to support vehicle integration.

Master Automotive Technician

Walters Auto Service
Dennoyer Chevrolet

Kalamazoo, MI, Oct. 2020 - Oct. 2022
Kalamazoo, MI, April 2017 - Jan. 2020

- Diagnosed and repaired light-duty, 4x4, and AWD vehicles across driveline, suspension, HVAC, and electrical systems.
- Performed major engine and transmission repairs and replacements.
- Collaborated with technicians to resolve complex issues, reinforcing skills in root-cause analysis and systems integration relevant to engineering practice.

Automotive Technician - Harvard-Chevrolet-Buick-GMC

Harvard, IL, Jan. 2014 - April 2017

- Performed diagnostics and repairs on driveline, suspension, brake, and electrical systems.
- Gained early mechanical experience that developed into analytical and technical skills essential to engineering problem solving.