

# Amir Williams

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## Education

Western Michigan University

**Bachelor of Science in Mechanical Engineering**

**GPA 3.43**

Kalamazoo, MI

**Expected Graduation, Spring 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

Denooyer 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.