

# Matthew Benton

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**Summary:** Experienced third year Mechanical Engineering student who is highly motivated to excel in the engineering field. Established leadership skills with the ability to accommodate and problem solve efficiently. Proven skills in project management and meeting strenuous deadlines. Searching for internship positions within the automotive industry.

## Education:

**Miami University, Oxford, Ohio**

Expected Graduation May 20xx

- Bachelor of Science, Mechanical Engineering Major
- GPA: 3.70
- Dean's List at Miami University

January 20xx - Present

## Skills:

- Proficient using a Coordinate Measuring Machine, Siemens NX, Abaqus, MatLab, and AutoDesk Inventor to draw, execute computational analysis, model physical systems, and manipulate and present data
- Experienced with calibrating and running a refractive index sensor, thermo-cycle chambers, and micro-measuring instruments
- Proficient with Microsoft Office Suite

## Automotive Industry Experience:

**Mechanical Engineering-Internship**

May - August 20xx

**American Axle Manufacturing | Detroit, Michigan**

- Performed competitive analyses on AAM's rear drive modules to compare system efficiencies across Chrysler platforms
- Conducted bottom up and top down Shainin project studies on differential gear set to meet NVH requirements
- Assisted design engineers in designing innovative and efficient differential gear sets with OEM specifications
- Consulted Chrysler product engineers to resolve concerning design changes in support of future driveline technology

**Mechanical Engineering-Internship**

May - August 20xx

**Uchiyama Manufacturing America LLC. | Novi, Michigan**

- Consulted General Motors and Ford design responsible engineers regarding testing fixture approval and design changes
- Designed and tested General Motors and Ford gaskets and O-rings for numerous engine programs
- Performed and supervised Ford thermo-cycle sealability bench tests for engine sealing components using elastomeric gaskets
- Computed 2-D and 3-D Finite Element Analysis to examine sealing pressure, strain, and compression for Uchiyama gaskets
- Engineered mating fixtures to test Uchiyama gaskets and O-rings under various pressure and temperature conditions
- Developed and examined General Motors, Ford, and Nissan mating part fixtures using Siemens NX software
- Assembled high pressure oil and coolant systems for thermo-cycle testing chambers

**Formula SAE, Mini-Baja and Micro-Truck Baja**

August 20xx - May 20xx - 20xx

**Miami University | Oxford, Ohio**

- Engineered and modified different components of both the Formula One and Baja racing car engines to optimize performance
- Reworked both the Formula One and Baja racing car frames to manage weight control and enhance efficiency

## Design Projects / Research Experience:

**Structural Support for a Traffic Sign**, Design Project (Mechanics of Materials)

April 20xx

**Water Storage and Supply System**, Design Project (Fluid Dynamics)

April 20xx

**Physics Lab Research**

August 20xx - October 20xx

*Miami University | Oxford, Ohio*

## Extracurricular Involvement:

**College of Engineering and Computing Student Advisory Council**, Miami University

January 20xx - Present

**Club Golf**, Miami University

February 20xx - Present

**Volunteer, St. Aloysius Parish**, Detroit, Michigan

October - December 20xx - 20xx

## Honors:

- Nominated for National Society of Leadership, Sigma Alpha Pi
- National Young Scholars Program
- Presidential Career Leadership Series: a) Future-Proofing Your Career and b) Code Demystified

July 20xx

August 20xx - August 20xx

20xx - 20xx