

Entry-Level Engineering – Mechanical / Manufacturing**Double Major in Mechanical and Manufacturing Engineering**

Pro-active problem solver looking to make an immediate bottom-line contribution to a company by combining my academic training and “real world” experience to help organizations overcome complex production and engineering deficiencies. I possess an analytical mindset, natural curiosity, and a sincere interest in improving engineering design/practices to create long-term solutions for mechanical design and manufacturing processes.

- ▶ Certified-Six Sigma Yellow Belt
- ▶ Earned Harley-Davidson **Black Level Award** for project performance on a scrap reduction project, which reduced shrinkage by \$14,000 annually.
- ▶ Team leadership experience in a manufacturing/engineering production environment
- ▶ **Technical Knowledge:** MS Office, Basic Java, Minitab, Matlab, EASE software, Basic SAP, LoggerPro, Working Model, AutoCAD, Inventor, Photoshop

EDUCATION

B.S. (expected May 2017), Mechanical and Manufacturing Engineering | Miami University, Oxford, OH

- ▶ Study Abroad in Freiburg, Germany (July 2014) in Thermodynamics and Engineering Economics – toured zero/negative energy suburbs, hydro power plant, coal fired power plant, and solar power plant.
- ▶ As part of graduation requirements will complete a team-based engineering design project that includes hands-on skills in concept design, R&D, manufacturing/build, testing, and quality assurance.
- ▶ Completed advanced level coursework in math, science, and engineering including but not limited to: [Strength & Materials](#) | [Thermodynamics](#) | [Electric Circuits Analysis](#) | [Mechanics of Materials](#) | [Manufacturing Process](#) | [Heat Transfer](#) | [Control of Dynamic Systems](#) | [Chemistry](#) | [Physics](#) | [Calculus](#)

ENGINEERING INTERNSHIPS

Manufacturing Internship | Harley-Davidson, Power Train Operations Division | May-Aug. 2016

Worked under the direction of the Tech Lead who was the supervisor to engineers in the manufacturing area. Interacted with the production team, General Manager, design engineers, and machine operators.

[Organization](#) | [Lean Manufacturing](#) | [Problem Solving](#) | [Project Management](#) | [Business Plan Development](#)

- ▶ Assisted with new product manufacturing project—Milwaukee-Eight™ engine—revealed Aug. 2016.
- ▶ Provided floor support and quality assurance review in a union shop – ensured operators were supplied with correct tooling, machine settings, parts, and supplies for manufacturing needs.
- ▶ **Capper Machine Project** – Recommended solution of purchasing an adjustable machine capable of manufacturing multiple kinds of parts due to limitations of current machine, which experienced 51% downtime. Conducted thorough needs analysis/feasibility study and submitted final recommendations.
- ▶ **Heat Treatment Project** – Supported future process improvement and product development needs. Analyzed parts before and after heat treatments, recorded data, and submitted reports to the project development center.

Manufacturing Internship | Harley-Davidson, Power Train Operations Division | June-Dec. 2015

Gained hands-on experience in lean manufacturing operations | Actively participated in projects to address problems with manufacturing efficiencies, work safety, process improvement, and team leadership.

[Six Sigma](#) | [Problem Solving](#) | [Process Improvement](#) | [Work Safety](#) | [Team Leadership](#) | [Communication](#)

- ▶ Conducted problem analysis utilizing Six Sigma strategies – developed a standard of work and trained machine operators on new processes, reducing gear scrap reduction by \$14,000 annually.
- ▶ Worked cross-departmentally to optimize production processes and reduce shrinkage/waste; developed processes and standards for salvaging oversized parts and providing items for resale.
- ▶ Developed and implemented preventative measures that reduced a top safety issue in the plant – observed operator procedures, added air knife to machines, and eliminated ongoing risk of eye injuries.

- ▶ Significantly reduced one of the plant's leading contributors to production down time by designing a solution for a new back-up manufacturing process for a transmission part – technique was approved by Safety and implemented immediately.
- ▶ Led team meetings and supervised 10 employees during Manager's absence.

ADDITIONAL EXPERIENCE

Teaching Assistant | Nature of Group Leadership | Spring Semester 2015 – Miami University

Co-taught leadership development class with another undergraduate student while studying full time.

Classroom Instruction | Communication | Presentation | Time Management | Leadership Development

- ▶ Presented class material on different aspects and styles of leadership to 30 students, assigned student work, graded student projects.
- ▶ Followed curriculum and syllabus under the guidance of a senior professor

Figure Skating Coach | Oxford Ice Crystals | 2013-2014

- ▶ Coached and trained 10 girls ages 6-14
- ▶ Oversaw development of basic skating skills, goal setting, and teamwork.

CAMPUS ACTIVITIES & PROFESSIONAL AFFILIATIONS

Theta Tau – Professional Engineering Fraternity, 2013-present

- ▶ Offices held: Pledge Education Chair, Recording Secretary, Corresponding Secretary – while Secretary, played a key role in the fraternity receiving its National Charter
- ▶ Participated in numerous philanthropic activities in partnership with Habitat for Humanity
- ▶ Earned Senior Service Leadership Award for dedication to the fraternity's philanthropic activities

American Society of Mechanical Engineers, 2015-present

- ▶ Offices held: Secretary

Society of Women in Engineering, 2014-present

Athletic Activities

- ▶ Susan B. Komen Race for a Cure 2012, 2013 – Miami University Women in Athletics
- ▶ Varsity Synchronized Skating Team – 2012-2013 season – member of the Junior Team which placed 6th at Nationals and earned a spot on Team USA for the 2013-2014 season.