

Education:

- **The University of Akron College of Engineering, Akron, Ohio**
Bachelor of Science in Mechanical Engineering expected May, 2017
Grade Point Average: **3.243/4.0**
Dean's List (College of Engineering)
Senior Design Project (quadcopter-blimp), Aerospace Propulsion, Materials Selection, Robot Design, Control & Application

Applied Experience:

- **President of Experimental Rocket Design Team at The University of Akron**
High powered rocketry, 3D design/ simulation, machining, electro-mechanical systems design/ fabrication, leadership
- **Board Member of The University of Akron's first Engineering Student Council**
Leadership, planning, team building, community involvement, time management, personal relations

Work Experience:

LuK USA LLC, Wooster, Ohio

[12/15/2014-Present]

An automotive company, LuK USA is part of the Schaeffler Group North America. Schaeffler Group North America is responsible for the engineering, production, sales and marketing for the INA, LuK, FAG and Barden brands throughout the United States, Canada, Mexico, Central America and the Caribbean. All four brands provide high-performance, precision technologies for the Automotive OEM, industrial OEM and distribution markets as well as the aerospace industry. LuK is a key source for automotive clutch, torque converter, hydraulic and transmission systems.

Transmission Subsystems Engineer Co-op

(Summer 2016)

- Patent research and organization for clutch pack benchmarking
- Detailed analysis and documentation of friction discs for clutch packs
- Project lead; main engineer working on the clutch pack project
- Microscopic analysis of shear and break out on disc splines to optimize manufacturing
- Friction material analysis and introduction to FEA parameters for discs
- Possible new manufacturing process patent for friction discs

Automatic Systems Verification/ Test Engineer Co-op

(Fall 2015)

- Test stand fixture design and fabrication to optimize test results for torque converter mechanisms
- Worked alongside test engineers and technicians while preparing for various tests on torque converter components
Test stands include: dyno, wet friction, cyclic spin, ultimate shear, and vibration tests
- Worked alongside verification engineers doing part teardowns and analyses on tested components
- Extensive use of PTC Creo design software, geometric tolerance standards and SAP
- Reverse engineered multiple products such as a pendulum damper

Mechanical Engineer Tool Design Co-op

(Spring 2015)

- Research project to determine if a pierce and extrude operation was possible to efficiently perform together in one stamping operation. Designed and implemented my own prototype stamping die that saved thousands of dollars
- Extensive use of SAP, VBA macro optimization and Pro Engineer design software
- Use of in house machine shop, lathe, mill, drill press etc.

Outback Steakhouse, Cuyahoga Falls, Ohio

[1/28/2011-Present]

Founded in 1988, Tampa, FL. An Australian inspired steakhouse focused on serious food, hospitality, and a fun, quality experience. Perfect scores on four straight years of evaluations and was promoted from entry level to key manager.

Outbacker (Employee) of the Year

(2012)

Key Manager/ Server Certified Trainer

- Managing/ supervising a crew of up to 50 employees including 23 servers, three bartenders, six hosts, three take away servers and ten line cooks/kitchen workers while giving clear direction and assistance if needed
- Customer service and hospitality. Fixing customer complaints while proactively handling unstable situations
- Salesmanship, interpersonal skills, money management, leadership, time management

Activities and Interests:

- President of Akronaunts-Rocket Design Team of the University of Akron (2015-Present)
- Board Member of Akron's first Engineering Student Council (2015-Present)
- Omicron Delta Kappa, national leadership honorary
- Lead Akron leadership certificate
- Akron Barbell, Powerlifting Organization, member
- Akron Bodybuilding, Bodybuilding Organization, Co-founder
- American Society of Mechanical Engineers (student chapter, member)
- EDGE Leadership Conference – The University of Akron (2016)
- Engineering Leadership Designation Program
- Akron Public Schools after school enrichment specialist Kidwind Coach
- Science fair judge (2017)

Coursework:

Schaeffler: Cost Saving with Design, SAP I, II, III, PTC Creo

Outback Steakhouse: Key Manager Class Room, Certified Trainer Classroom

Engineering: Aerospace propulsion, Materials Selection and Design, Robot Design, Control and Application, Concepts of Design, Heat Transfer, Thermodynamics I-II, Fluid Mechanics I-II, Design of Mechanical Components, Fundamentals of Mechanical Vibrations, Mechanical Metallurgy, Systems Dynamics and Response, Analysis of Mechanical Components, Kinematics of Machines, Engineering Analysis I-II, Dynamics, Statics, Mechanics of solids

Mathematics: Calculus I-III, Differential Equations, Physics I-II, Probability and Statistics for Engineers

Other: Google Analytics, Leadership Fundamentals

Skills:

Software: Microsoft Office, PTC Creo 5.0, Pro-Engineer, SAP and SolidWorks. Arduino, MATLAB, AutoCAD, OpenRocket, BurnSim, VBA, JMP, WestPoint Bridge Builder, ANSYS Fluent, Movie Maker, Photoshop, Coordinate Measuring Machines, Labview and Inventor.

Soft Skills: As EDD's will show: works well in group settings and individually, strong leadership/ team building qualities, customer service, salesmanship and time management. Not afraid to ask questions to get answers. Design team feedback shows good verbal communication, nonverbal communication and public speaking in an engineering setting.