

# Ryan Chen

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## EDUCATION

### Ohio Northern University, Ada, OH

May 2025

**Major:** Mechanical Engineering (ABET Accredited) 3.70 Cumulative GPA • Magna Cum Laude

**Honors/Accolades:** Outstanding Greek Man of the Year • Tau Beta Pi Outstanding Leadership Award • Order of Omega Founder's Award • DeBow Freed Award for Outstanding Leadership • Dean's List x7 • Polar Innovation Exchange (Campus Design Competition) 1st Place.

**Course Highlights:** Engineering Capstone project for Procter & Gamble • Mechanical Design • Material Science • Circuits • 3-D Modeling • Advanced Thermodynamics • Computer Applications • Computational Fluid Dynamics • Engineering Analysis • Industrial Controllers

## UNIVERSITY INVOLVEMENTS

### Ohio Northern University, Ada, OH

School Mascot (Klondike) • Interfraternity Council (President, VP Admin & PR) • Order of Omega (President) • Phi Mu Delta (VP Finance, Fundraising/Philanthropy, Recruitment) • Orientation Leaders (Coordinator) • President's Club • College of Engineering Peer Mentor • Student Senate (Engineering Senator, Housing Senator) • Mortar Board • Good News Bears (Engineering Coordinator) • Alpha Phi Omega • Asian American Student Union • ASME • Omicron Delta Kappa • Engineering Dean's Team • Student Planning Committee • Campus Tour Guide

## ENGINEERING EXPERIENCE

### Whirlpool Corporation, Ottawa, OH

July 2025 - Current

*Manufacturing Leadership Development Program - Quality Engineer*

- Oversaw the quality of the upright freezer assembly line • Managed 10+ direct reports • Work through Kaizens to solve FPY, AY, CAL, and SIR issues • Created test plans to validate product quality and ensure customer satisfaction • Engaged in fast-paced problem solving as issues arose on the floor • Complete statistical analyses to identify trends in quality issues • Plan and monitor unit trials on assembly line • Led design of dashboard to house all relevant plant data for in house research on problems and trends in the plant using LookerStudio.

### Procter & Gamble, Lima, OH

May 2024 - May 2025

*Capstone Project*

- Collaborated with the capstone team to reduce production bottleneck of scented bead cooling time while in storage • Researched and designed potential solutions • Collected experimental data for bead thermal properties using hot water apparatus to bring beads to production temperature • Modeled best options and ran FEA analysis using Ansys Fluent to simulate heat transfer of top designs • Ordered materials and built small scale containers with top 2 designs from simulation • Tested in P&G lab using real production line and ambient conditions • Results between simulation and real world test were within 5% • Simulated with full scale bin and found estimated 60% decrease in cooling time • Presented project to faculty, staff, external professionals, and Lima P&G leadership which was very well received.

### Marathon Petroleum Company, Findlay, OH

August 2023 - August 2024

*Midstream Mechanical Engineering Co-Op*

- Led inspection & repair projects for Above-Ground Storage Tanks (AST) • Created a PowerBI calculator to compare yearly spending on projects • Communicated with external contractors, local operations, and company professionals • Created civil and mechanical drawing packages for refuel tank installation in AutoCAD and Plant 3D • Analyzed pressure relief paths of various terminals and listed recommendations to ensure safety criteria were met • Collaborated with Project Leaders and other engineers to analyze system hydraulics and select adequate pumps • Communicated with project leaders on design requests for as-built drawing updates • Created standard Word report template for butane injection projects, consulting subject matter experts and engineers on their expertise in the topics • Developed a standard library of pump curves in AFT Fathom (hydraulic analysis software) to allow engineers to save time validating those curves by contacting vendors - estimated \$20,000 savings annually • Participated in company groups such as the DE&I team and Asian Employee Network • Volunteered in the community through the United Way and Salvation Army • Presented a comprehensive summary of work projects to 10+ department leaders.

### Danfoss Power Solutions, Maumee, OH

May 2022 - August 2022

*Mechanical Engineering Co-op*

- Created test requests and reports for hydraulic hoses and fittings • Conducted research and tests for validation and qualification of product • Made change orders, change requests, and edits to part drawings • Led design operation of table to show "Force to Bend" of different hoses • During this design process, researched parts, and made a 3D SolidWorks model of the table • Additionally programmed custom Visual Studio GUI, microcontrollers, and Force Sensitive Resistors to output data onto said computer GUI • Wired all components, and presented the solution in front of the management team.

## PROFESSIONAL LICENSES & CERTIFICATIONS

### Engineer Intern (EI)

July 2025

*The State Board of Registration for Professional Engineers and Surveyors of the State of Ohio*

- Credential ID: EI.15734

### SOLIDWORKS Associate, Mechanical Design (CSWA)

April 2023

*Dassault Systèmes*

- Credential ID: C-BREKJMG3P

## TECHNICAL SKILLS

- Mandarin Chinese Speaking Proficiency • Microsoft Excel/Word • Matlab and Simulink • Precision machining experience • LTSpice • LabVIEW • DirectSoft and PLC experience • PowerBI • Autodesk Inventor • AutoCAD • Cura • Fusion360 • Visual Studio • Arduino • EES • Fidelity Pointwise • Cobalt • LightBurn and laser experience