

# COLE T. GOODWIN

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## EDUCATION

<b>University of Illinois at Urbana-Champaign – Grainger College of Engineering</b> <i>Bachelor of Science in Mechanical Engineering</i> GPA: 3.8/4.0	<i>May 2025 (Expected)</i>
<b>Barrington High School – Barrington, Illinois</b> GPA: 4.5/4.0	<i>August 2017 – May 2021</i>

## RELEVANT WORK EXPERIENCE

<b>Canadian Pacific Kansas City Railway – Bensenville, Illinois</b> <i>Engineering Intern</i> <ul style="list-style-type: none"><li>Overhauled previous naming conventions, creating a unified and efficient system across the network</li><li>Led team to update characteristics of assets in regulatory system, in preparation for the final internal structures merger</li><li>Verified outsourced asset data accuracy to align with internal GIS systems</li><li>Shadowed yard Project Manager on site during yard track projects and mainline siding installations</li></ul>	<i>May 2024 – Present</i>
<b>TTX Company – Chicago, Illinois</b> <i>Fleet Management Intern</i> <ul style="list-style-type: none"><li>Coordinated with railroads and shippers to provide tailored customer service solutions</li><li>Managed the General Equipment Fleet railcar pool and maintained accounting records for TTX-owned railcars</li><li>Prepared industry reports and analytics for company executives and shareholders</li><li>Developed and delivered high-level presentations to outline critical business operations</li></ul>	<i>March 2023 – March 2024</i>
<b>Metrom Rail – Crystal Lake, Illinois</b> <i>Intern</i> <ul style="list-style-type: none"><li>Brainstormed with the engineering team to identify and evaluate potential solutions to rail safety hazards</li><li>Conducted prototype testing for rail safety equipment ahead of an industry conference</li><li>Analyzed test data using Microsoft Excel, employing linear regression to draw insights</li></ul>	<i>June 2019 – August 2019</i>

## PROJECT HIGHLIGHTS

<b>Impact Resistant Material for Helmets – Champaign, Illinois</b> <i>Team Member</i> <ul style="list-style-type: none"><li>Conducted literature reviews on impact-resistant materials and modern helmet design practices</li><li>Established design criteria and evaluated prototypes for material and design performance</li><li>Produced and tested top-performing designs in a laboratory setting, reporting detailed findings</li></ul>	<i>August 2024 – Current</i>
<b>Transmission Design and Fabrication Project – Champaign, Illinois</b> <i>Team Member</i> <ul style="list-style-type: none"><li>Collaborated with a 4-person team to design and prototype a simple transmission system</li><li>Modeled, assembled, and performed finite element analysis on forward, reverse, and braking mechanisms using Fusion 360</li><li>Delivered a comprehensive presentation and technical report summarizing project outcomes</li></ul>	<i>January 2024 – May 2024</i>
<b>Accessibility Fruit Slicer Design – Champaign, Illinois</b> <i>Team Member</i> <ul style="list-style-type: none"><li>Partnered with a 3-person team to design and prototype a fruit slicer tailored for individuals with mobility impairments</li><li>Utilized Fusion 360 and Ultimaker Cura for 3D modeling and printing of the prototype</li><li>Applied MATLAB for Position Velocity Analysis and Design Force Analysis to optimize linkage performance</li></ul>	<i>August 2023 – December 2023</i>

## RELEVANT COURSE WORK

<b>Engineering Materials</b>	<b>Statistics and Probability</b>	<b>Fundamentals of Fluid Dynamics</b>
<b>Mechanical Design II</b>	<b>Dynamics of Mechanical Systems</b>	<b>Thermodynamics</b>

## HONORS, SKILLS, AND PROFICIENCIES

<u>Honors</u>	<u>Skills</u>	<u>Proficiencies</u>
- 5-Time Dean's List Recipient	- Python	- Microsoft Excel
- National Honor Society Member	- Fusion 360	- Microsoft Word
- Illinois State Scholar	- SAP	- Microsoft PowerPoint
	- MATLAB	- Microsoft Outlook
	- Ultimaker Cura	- Google Earth
	- Concur	