

Lukas Bell

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Civil Engineering junior, experienced in CAD software seeking a hands-on summer internship in transportation.

Education: **Bachelor of Science, Civil Engineering** **May 2027**
Rose-Hulman Institute of Technology, Terre Haute, IN **GPA: 3.07**

Related Courses: Transportation Engineering, Structural Mechanics I, Concrete Design I, Steel Design, Geographical Information Systems, Water Resources, Mechanics of Materials, Civil Engineering Materials, Mechanical Systems, Conservation & Accounting Principles

Skills: **Technical:** AutoCAD Civil3D, MicroStation, SolidWorks, ArcMap, Mathcad, Maple, MATLAB, Bluebeam Revu, Adobe Illustrator, Adobe Photoshop, Microsoft Excel, Microsoft Word

Projects: **ASCE Steel Bridge Competition** **September 2025 – May 2027**

- Designed, simulated, and fabricated a 20-foot model steel bridge
- Evaluated design based on time of assembly, weight, and deflection under 2500-pound load
- Made use of my unique SolidWorks experience to design connections for machining

Wooden Bridge Competition **December 2024 – February 2025**

- Designed, simulated and constructed a 30-inch model bridge made of balsa wood
- Computed and analyzed the stresses in each member of the bridge
- Withstood 300 times its weight

Rose Grand Prix Engineering **September 2023 – May 2024**

Chassis & Ergonomics Team Member

- Designed, built and raced a miniature Formula-style racecar against other colleges
- Built the car from scratch and tested it to conform to safety regulations
- Tested, troubleshot, and eventually competed against other colleges times its weight

Landing Gear Simulation **October 2023 – November 2023**

- Created an acrylic link for a landing gear system
- Calculated the exact thickness of the link and the load it had to withstand
- Revised our link until there was near zero wasted material, with a completely unique design
- Won first place with my team (lightest link that could support the load)

Experience: **Lochmueller Group, Mishawaka, Indiana**

Bridge Design Intern

July 2025 – August 2025

- Created a spreadsheet that calculates dead load at given points on a bridge
- Utilized Civil3D to make a drawing that automatically calculates its own fill quantity
- Drafted plans for a reinforced concrete bridge approach

Roadway Design Intern

June 2025 – July 2025

- Graphically checked vertical curves for adequate stopping sight distance
- Collaborated with senior engineer to implement his ideas into technical drawings
- Created an AutoCAD smart block to automatically snap construction lines to intersections

Ink Your Wear, Riverside, Illinois

September 2021 – August 2023

Graphic Designer

- Drafted and finalized hundreds of original designs
- Found faster and more efficient ways to make higher-quality and more detailed print files
- Used existing design software and printing techniques to create innovative designs

Activities: **American Society of Civil Engineers**

December 2024 – May 2027

Member