

LUKAS BELL

Civil engineering senior, experienced in urban transportation engineering, seeking a full-time position improving the quality, safety, and sustainability of Chicago's transportation system.

Riverside, IL

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EDUCATION	BACHELOR OF SCIENCE, CIVIL ENGINEERING	MAY 2027
	<i>Rose-Hulman Institute of Technology</i>	GPA: 3.10
	<u>RELATED COURSES:</u> Traffic Analysis & Design, Geometric Design of Highways & Streets, Intro to Transportation Engineering, Geographical Information Systems, Land Development Engineering, Civil Engineering Codes & Regulations, Water Resources Engineering, Mechanics of Materials, Civil Engineering Materials, Sustainable Civil Engineering Design	
SKILLS	<u>SOFTWARE PROFICIENCY:</u> Bentley OpenRoads Designer, Bentley MicroStation, Bluebeam Revu, AutoCAD Civil3D, ArcGIS Pro, Microsoft Excel, Microsoft Word, Microsoft Project	
	<u>GENERAL SKILLS:</u> Corridor modeling, sidewalk ramp design, ADA-compliant design, quantity calculation, due diligence, plan preparation, team coordination & communication, detailed research	
EXPERIENCE	TRANSPORTATION INFRASTRUCTURE & URBAN DESIGN INTERN	JUNE - AUGUST 2026
	<i>Baxter & Woodman Consulting Engineers</i>	CHICAGO, IL
	- Visualized geometric constraints on vertical alignment utilizing original methods - Assisted with the exploration and presentation of more elegant solutions for tabulating quantities - Created CAD models, quantity sheets, specification packages, and plan sets - Referenced the standards, codes, and regulations that dictated my work - Contributed to projects in a variety of design stages & scopes	
	BRIDGE DESIGN INTERN	JULY - AUGUST 2025
	<i>Lochmueller Group</i>	SOUTH BEND, IN
	- 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	
PROJECTS	ROADWAY DESIGN INTERN	JUNE – JULY 2025
	<i>Lochmueller Group</i>	SOUTH BEND, IN
	- Graphically checked vertical curves for adequate stopping sight distance - Collaborated with senior engineer to implement his ideas into CAD drawings - Created an AutoCAD smart block that could be quickly fitted to each intersection	
	PORT RAIL BRIDGE	SEPTEMBER 2026 - MAY 2027
	- Created a detailed plan set for a 280-foot, two-track rail bridge over a creek & wetland - Communicated with my team about rail alignment constraints relating to the project as a whole	
	VISUALIZING CONSTRAINTS FOR VERTICAL PROFILES	AUGUST 2026
	<i>Baxter & Woodman Consulting Engineers</i>	
	- Synthesized a method of drawing road profiles that involved visualizing geometric constraints - Eliminated guesswork from the workflow entirely - Assisted with the efficient creation of informed designs	
	WOODEN BRIDGE COMPETITION	DECEMBER 2024 - FEBRUARY 2025
	- Designed, simulated and constructed a 30-inch model bridge made of balsa wood - Withstood 300 times its weight	
	LANDING GEAR SIMULATION	OCTOBER - 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 - Won first place with my team (lightest link that could support the load) with a unique design	