Ethan Caldwell

STRUCTURAL ENGINEERING INTERN

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SUMMARY

Civil engineering student at Purdue on a second engineering internship, this one in structural engineering, continued part-time through the fall semester. Checks beams and columns in RISA and RAM, draws details in AutoCAD and Revit, and has passed 5 structural analysis and design courses with a 3.6 GPA.

SKILLS

RISA • RAM Structural System • AutoCAD • Revit • Structural Analysis • ASCE 7 • Excel • Word • PowerPoint
Communication Skills

EXPERIENCE

Structural Engineering Intern 05/2026 - Present

Wabash Structural Group Indianapolis, IN

Summer internship in a 25-person building design firm, continued part-time during the fall semester.

- Model **3** steel and wood-framed buildings in RISA-3D and RAM Structural System under a PE's review.
- Calculate gravity and wind loads to ASCE 7 for 40 beams, columns and footings, documented in Excel.
- Draft 25 connection and foundation details in AutoCAD and update Revit sheets for permit sets.
- Review shop drawings for 2 projects and log 60 comments in a Word tracking sheet.

Engineering Intern 05/2025 - 08/2025

Hoosier Civil Consultants Lafayette, IN

Summer internship with a municipal civil engineering firm.

- Measured 12 culverts and small bridges in the field and sketched repair notes for engineers.
- Produced 30 plan and profile sheets in CAD software for 2 road resurfacing projects.
- Compiled quantity estimates in Excel that matched final bid quantities within 5%.
- Presented a PowerPoint summary of culvert conditions to the county highway board.

Undergraduate Research Assistant 09/2024 - 04/2025

Bowen Laboratory, Purdue University West Lafayette, IN

Part-time role in the large-scale structural testing lab, 10 hours a week.

- Instrumented 6 reinforced concrete beam specimens with strain gauges and displacement sensors.
- Processed test data for 2 graduate studies in Excel and compared results with hand calculations.
- Built 3 timber and steel test fixtures to drawings under lab safety rules.

EDUCATION

Bachelor of Science 05/2027

Purdue University West Lafayette, IN

Civil Engineering GPA: 3.6

CERTIFICATES

OSHA 10-Hour Construction Safety 2025

Occupational Safety and Health Administration