

Zachary Baker is a Senior Staff Consultant for ESI, specializing in forensic structural engineering. With five years of experience, Mr. Baker has conducted investigations on structures affected by high wind and hail events, snow loading, moisture intrusion, fire, and vehicle impact. His expertise includes structural analysis, repair and renovation design, code compliance, and construction defect investigations. He has performed structural failure assessments, collapse investigations, and building envelope evaluations to determine the extent of damage and develop appropriate remediation plans. Additionally, Mr. Baker provides consulting on slip/trip and fall incidents.

Education

MS, Civil Engineering. Purdue University. 2024

BS, Civil Engineering, with Distinction. University of Minnesota. 2021

Licenses & Certifications

- State of Minnesota P.E. License 63793
- State of Nebraska P.E. License E-21262
- State of Wisconsin P.E. License 102447-6
- Walkway Audit Certificate Holder, National Floor Safety Institute, Certificate No. 00212
- Society of Professional Rope Access Technicians – Level 1, Certificate No. 2501998
- Industrial Rope Access Trade Association – Level 1, Certificate No. 1/289597
- Certified FARO Operator

Positions Held

Engineering Systems Inc., Plymouth, Minnesota

- Senior Staff Consultant, 2024 – Present
- Staff Consultant, 2021 – 2023
- Structural Engineering Intern, 2020 – 2021

Contact Information

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ESi Minneapolis

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Areas of Specialization

- Code Compliance
- Collapse and Structural Failure Investigations
- Construction Defect Investigations
- Moisture Intrusion Investigations
- Repair and Renovation Design
- Rope Access
- Slips/Trips and Falls
- Structural Analysis
- Structural Design
- Weather Damage Assessments

Bolton and Menk, Inc., Maplewood, Minnesota

- Engineering Intern, 2017 – 2019

Professional Affiliations/Honors

American Society of Civil Engineers (ASCE)

- Member

Building Enclosure Council (BEC) of Minnesota

- Member

Presentations

“Evaluating Cosmetic and Functional Hail Damage”, **Z.J. Baker**, presented at the League of Minnesota Cities Seminar, St. Paul, MN, 2023.