



ZACHARY J. BAKER, M.S., P.E.
SENIOR STAFF CONSULTANT

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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.

Areas of Specialization

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

Education

- M.S. Civil Engineering, Purdue University, West Lafayette, IN, 2024
- B.S. Civil Engineering, with Distinction, University of Minnesota, Minneapolis, MN, 2021

Licenses/Certifications

- State of Minnesota..... P.E. License 63793
- State of Nebraska..... P.E. License E-21262
- Professional Engineer, State of Minnesota, License No. 63793
- Walkway Audit Certificate Holder, National Floor Safety Institute, Certificate No. 00212
- Certified FARO Operator

Professional Affiliations

American Society of Civil Engineers (ASCE)

Member

Positions Held

Engineering Systems Inc., Plymouth, Minnesota

Senior Staff Consultant, 2024 – Present

Staff Consultant, 2021 – 2023

Structural Engineering Intern, 2020 – 2021

Bolton and Menk, Inc., Maplewood, Minnesota

Engineering Intern, 2017 – 2019

Presentations

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