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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
Rope Access
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
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

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