# Madison Monaghan EIT

Staff Consultant



Madison Monaghan is a Staff Consultant at Engineering Systems Inc. (ESi), specializing in forensic structural engineering. Miss Monaghan's expertise includes structural analysis, repair and renovation design, code compliance and construction defect investigations. She has preformed structural failure assessments and collapse investigations to determine the extent of damage and develop remediation plans.

## **Licenses & Certifications**

- State of Illinois EIT. License No. 061.043497
- FARO Focus Scanner User Certification Program

## **Positions Held**

## Engineering Systems Inc., Aurora, Illinois

- Staff Consultant, 2025 Present
- Intern, 2024 2024

## Bechtel Innovation and Design Center, West Lafayette, Indiana

Teaching Assistant, 2024 - 2025

## Tigerbrain Engineering, Oviedo, Florida

• Intern, 2023 – 2023

## Giffels Webster, Birmingham, Michigan

Intern, 2022 - 2022

## **Professional Affiliations/Honors**

## American Society of Civil Engineers (ASCE)

Member since 2025

# **Project Experience**

## Investigations

## **Damage Assessments**

- Balcony Structural Assessment & Risk Mitigation
- Investigation and Assessment on the Extent of Fire Damage on Structural Components. Remediation design on Fire Damage.
- Investigation of lift collapses and Total Structural Collapses.
- Hurricane Damage Assessments

#### Construction

- Investigations of Construction Accidents & Root Causes
- Inadequate Construction Investigations & Risk Mitigation

# Madison T. Monaghan

Staff Consultant

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#### ESi IL - Aurora

4215 Campus Drive Aurora, IL 60504

#### Education

MS, Civil Engineering
Purdue University. Current

BS, Civil Engineering Purdue University. 2025

#### Areas of Specialization

Civil & Structural Engineering

Failure Analysis

Structural Analysis

FARO 3D Modeling

Risk Assessment & Mitigation

Geotechnical Investigations

**Construction Defect Investigations**