

Mr. Domel is a Senior Staff Consultant with ESi. He specializes in forensic inspections, evaluations, and redesigns of damaged structures. He has worked on a variety of structures, including residential, commercial, and industrial, and has worked with a variety of material types, especially wood, steel, and masonry structures. Mr. Domel has performed structural condition and damage assessments for numerous structural distresses, including buildings damaged by fire, tornadoes, vehicle impacts, water, and snow. Mr. Domel also specializes in load rating, emergency stabilization, and temporary shoring design.

Outside of his time at ESi, Mr. Domel is completing a PhD in Structural Engineering at the University of Illinois at Chicago. He has conducted research on the structural health monitoring of precast concrete bridges. He has also conducted research on buildings affected by high wind speeds at the University of Illinois, Urbana-Champaign. Mr. Domel has been a guest lecturer at the Illinois Institute of Technology and Judson University for their Site Operations and Construction Safety Courses and Structural Design II Courses, respectively.

Education

MS, Structural Engineering. Stanford University. 2018

BS, Civil Engineering. University of Illinois Urbana-Champaign. 2017

Licenses & Certifications

- State of Illinois S.E. License 081.009015
- State of Iowa P.E. License P28934
- State of Kentucky P.E. License 39357
- State of Wisconsin P.E. License 101430-6
- State of Indiana P.E. License PE12500237
- OSHA 10-Hour Training Certification
- OSHA 30-Hour Training Certification
- Mobile Elevating Work Platform Operator Certification

Contact Information

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ESi Aurora

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Areas of Specialization

- Engineering Analysis
- Structural Design
- Structural Failure Analysis
- Damage Repair Engineering
- Structural Health Monitoring
- Building Code Review & Analysis
- Retrofit & Strengthening Design
- Structural Condition Assessment
- Damage Assessment
- Failure Analysis
- Emergency Stabilization
- Temporary Shoring Design

- Scaffold (Supported/Suspended) User and Erector Certification

Positions Held

Engineering Systems Inc., Aurora, Illinois

- Senior Staff Consultant, Civil & Structural, 2024 – Present
- Staff Consultant, Civil & Structural, 2018–2024

Wiss, Janney, Elstner Associates, Inc., Northbrook, Illinois

- Project Engineer Intern, Summer 2017

Leopardo Companies Inc., Hoffman Estates, Illinois

- Project Engineer Intern, Summer 2016

Engineering Systems Inc., Aurora, Illinois

- Structural Engineering Intern, Summer 2015

W.C. Doland Engineering Inc., Palatine, Illinois

- Construction Field Technician, Summer 2013 & 2014

Presentations

“Structural Stability During Construction,” **A.J. Domel**, Site Operations and Construction Safety (CAE 472), Illinois Institute of Technology, 2024.

“Design Loads on Structures During Construction,” **A.J. Domel**, Site Operations and Construction Safety (CAE 472), Illinois Institute of Technology, 2019.

“Structural Design of Steel Beams,” **A.J. Domel**, Structural Design II, Judson University, 2018.