

Antonio J. Domel PE, SE

Senior Staff Consultant, Civil & Structural



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.

Licenses & Certifications

- State of Illinois S.E. License No. 081.009015
- State of Kentucky P.E. License No. 39357
- State of Iowa P.E. License No. P28934
- State of Wisconsin P.E. License No. 101430-6

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

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ESi IL - Aurora

4215 Campus Drive, Aurora, IL 60504

Education

MS, Structural Engineering.
Stanford University, Stanford, CA 2018

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

Areas of Specialization

Engineering Analysis

Structural Design

Structural Failure Analysis

Damage Repair Engineering

Structural Health Monitoring

Building Code Review and Analysis

Retrofit and Strengthening Design

Structural Condition Assessment

Damage Assessment

Failure Analysis

Emergency Stabilization

Temporary Shoring Design



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Teaching and Technical Presentations

Structural Stability During Construction

Site Operations and Construction Safety (CAE 472), Illinois Institute of Technology, 2024 (Guest Lecturer)

Design Loads on Structures During Construction

Site Operations and Construction Safety (CAE 472), Illinois Institute of Technology, 2019 (Guest Lecturer)

Structural Design of Steel Beams

Structural Design II, Judson University, 2018

Education

- M.S., Structural Engineering, Stanford University, Stanford, California, 2018
- B.S., Civil Engineering, University of Illinois, Urbana-Champaign, Illinois, 2017

Honors and Awards

- Illinois Asphalt Pavement Association (IAPA) Scholarship Winner

Training and Certification

- OSHA 10-Hour Training Certification
- OSHA 30-Hour Training Certification
- Mobile Elevating Work Platform Operator Certification
- Scaffold (Supported/Suspended) User and Erector Certification