

John E. Moberg, P.E. | Forensic Engineer

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Professional Summary:

Mr. Moberg has more than 20 years of experience in civil/structural engineering with more than 8 years of experience focused on forensic engineering and inspection. His background includes performing engineering analysis, design, and inspection of a versatile range of structures including buildings, bridges, storage tanks, and telecommunications towers using different materials and building codes for both public and private sectors. His specialty is structural analysis and inspection.

Areas of expertise:

- Structural Engineering
- Forensic Engineering

Licenses and Certifications:

Professional Engineer (Additional states available upon application):

Iowa, License #23580

Ohio, License #73483

Kansas, License #19794

South Dakota, License #14721

Minnesota, License #58473

Washington, License #46292

Missouri, License #PE-2020010411

Wisconsin, License #47917-6

Nebraska, License #E-18133

Vale Advanced Roofing Certification

Project Experience:

The sample projects here outline a small sampling of the types of projects and losses Mr. Moberg regularly investigates. For further information or additional examples, please contact EFI Global.

Multiple Clients, Midwest District

Forensic Engineering Services (EFI Global, Inc., Edina, MN/Addison, IL)

Provided residential and commercial inspection services for insurance purposes to sites throughout Iowa, Nebraska, South Dakota, and other neighboring states potentially subjected to damages from fire, wind, hail, flood, lightning, water intrusion, and other causes, including vehicular impact, construction errors and omissions, or material defects. Determined the extent and causes of damages to buildings and building components, evaluated structural stability and safety, found sources of water intrusion and moisture-related damages, and recommended repairs as needed to damaged properties throughout the Midwest. Experienced in Catastrophe (CAT) Response

evaluating catastrophe related damages to residential and commercial structures due to explosions, floods, tornadoes, and derechos (wind events).

NFIP Direct, Iowa

Residential Flood Damage Inspection (Destek Engineering, LLC, Marietta, GA)

Provided residential structural inspection services for insurance purposes to sites in Iowa potentially subjected to flood damage. Determined the extent and causes of damages to residential buildings and ancillary structures, evaluated structural stability and safety, and recommended repairs as needed to flood and storm damaged properties throughout the state of Iowa.

City of Des Moines, Des Moines, Iowa

Parking Garage Inspection (Shuck-Britson, Inc., Des Moines, IA)

Provided consulting services to the City of Des Moines on a variety of unique projects including the renovation and design of new egress stairways and full inspection services for city-owned parking garages.

Iowa State University, Ames, Iowa

Structural Engineering (Graduate Student)

Studied structural engineering methods, techniques, and designs for both buildings and bridges. Graduated with a Master of Engineering degree in Civil Engineering emphasizing in structural engineering.

AT&T, Midwest/West Regions

Tower Analysis (Black & Veatch, Overland Park, KS)

Acted as Lead Engineer for project, and supervised engineers in three offices in order to provide all structural engineering services to AT&T for all sites located in a sixteen-state region, later expanding to two regions and twenty-nine states. Project services included analysis, tower mapping and inspection, foundation and geotechnical investigation, and design of required structural modifications and repairs.

Weyerhaeuser, Plymouth, North Carolina

Storage Tank Inspection (AEC Engineering, Inc., Richmond, VA)

Assisted API, AWS, and NACE Certified Inspectors with tank integrity inspections and tank coating evaluations. Calculated corrosion rate and remaining service life for steel tanks based on ultrasonic thickness measurements, tested welds with vacuum boxes, performed low-voltage holiday tests on applied coatings, and reviewed ventilation and safety requirements for above-ground storage tanks.

Illinois DOT, McKinley Bridge, St. Louis, Missouri

Bridge Inspection (Teng & Associates, Inc., Richmond, VA)

Performed multiple onsite inspections on a steel truss bridge spanning the Mississippi River as part of a structural inspection team contracted to the Illinois Department of Transportation. Identified and documented areas of concern with regard to the structural integrity of the bridge.

Expert Witness Testimony: Court Qualifications/Depositions/Testimony:

Mr. Moberg has experience testifying as an expert witness in both arbitrations and depositions and has been accepted as an expert witness in multiple jurisdictions.

**List of Expert Witness Experience is Available Upon Request*

Professional Experience:

EFI Global, Inc., Forensic Engineer (current title), 2020-present
Destek Engineering, LLC, Structural Engineer, (2018-2019) (Acquired by EFI Global, Inc.)
Shuck-Britson, Inc., Structural Engineer, 2016-2018
Black & Veatch, Civil/Structural Engineer, Lead Engineer, Telecommunications, 2005-2014
AEC Engineering, Inc., Structural Engineer (EIT), Project Engineer, Coatings, 2002-2004
Teng & Associates, Inc., Structural Engineer (EIT), 2001-2002

Formal Education:

Master of Engineering, Civil Engineering, Iowa State University, Ames, Iowa, 2016
Bachelor of Science, Architectural Engineering, Kansas State University, Manhattan, Kansas, 2000
Bachelor of Arts, Mathematics, Kansas State University, Manhattan, Kansas, 2000

Specialized Education/Training:

When Codes Are in Conflict: Building Science and Life Safety in Wood-Framed Construction, 2025
Smarter Steel Bridge Design to Accelerate Bridge Project Delivery, 2025
Simple for Dead Load – Continuous Live Load Steel Bridge Systems, 2025
Masonry Thru-Wall Flashing and Key Interface Details, 2025
How Blockchain Protects Public Safety: A Working Solution, 2025
Fortifying Slope Surfaces Against Erosion with Geocells, 2025
What the Heck Happened: A Case Study in a New Building's Stucco Gone Wrong, 2025
Continuous Insulation Compared Within 8 Steel Stud Wall Assemblies, 2025
A One-Sided Approach – The Longitudinal Launch of Pretty Rocks Slide Bridge, 2025
The Next Generation of Prestressed/Precast Concrete Deck Beam Bridges, 2025
Accelerated In-Service Deck Replacement – I-90 Columbia River Bridge Vantage, Washington, 2025
Alaska DOT's Innovative Use of Drone Technology – Everyday Tools and Emergency Readiness, 2025
ODOT Combines Multiple ABC Methods for Maximum Value at I-5 Over 26th Ave, 2024
What Is Artificial Intelligence & Machine Learning, and Why Should Bridge Engineers Care?, 2024
Innovations in Ultra-High-Performance Concrete (UHPC), 2024
General Overview of Vessel Collision Risk Analyses, 2024
Artificial Intelligence in Critical Infrastructure Systems, 2024
Navigating the Ethical Dilemmas that Arise in Everyday Engineering Practice, 2024
Ethical Case Insights: Lessons in Disclosure, 2024

Specialized Education/Training (Continued):

Ethical Case Insights Part I: Disclosing, Standing Your Ground, and Dealing With Conflicts, 2024

Ethical Case Insights Part II: Keeping the Public Safe, Receiving Gifts, and Questioning Design Responsibility, 2024

Trip and Fall Investigations Live Interactive Seminar, 2024

Slip and Fall Investigations, 2024

Trip and Fall Investigations, 2024

ADA and Slip, Trip, and Fall Investigations, 2024

Legal Impacts of Investigations, 2024

Human Dynamics, 2024

Condition Assessment of In-Service Bridge Cables Using the Innovative BTC Method, 2024

Accelerated Replacement of the Iconic Nashville Broadway Viaduct Bridge, 2024

Implementing the New Specifications for the National Bridge Inventory (SNBI): Idaho Transportation Department's Plan, 2024

Amplifying the Current Infrastructure for the Imminent EV Transition, 2024

Affiliations:

Member, National Society of Professional Engineers