

Kyle Meehan | Forensic Structural Engineer, PE, SE

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Professional Summary:

Mr. Meehan has experience in the civil engineering industry with specialization in structural engineering and construction with experience in design, analysis, inspection, and construction of residential, commercial, telecommunication, and industrial structures. He has experience with code interpretation of state adopted building codes with local amendments across the U.S. including, but not limited to, the International Building Code (IBC), the California Building Code (CBC), and the Florida Building Code (FBC). Mr. Meehan has experience in evaluating structural damage due to flood, snow, wind, hail, construction deficiencies, settlement, and impact.

His general range of expertise include:

- Forensic Civil/Structural Investigations
- Steel Analysis/Design/Retrofit Design/Construction Methods
- Wood Analysis/Design/Retrofit Design/Construction Methods
- Concrete Analysis/Design/Retrofit Design/Construction Methods
- Foundation Analysis/Design/Retrofit Design/Construction Methods
- Topographic Wind Speed-Up Analysis
- Seismic Analysis
- Construction Management
- Construction Inspections
- Steel Structure Inspections
- Roof – Storm Damage Inspections

Licenses and Certifications:

Professional Engineer, AL, License #40021-E

Professional Engineer, CA, License #81654

Professional Engineer, FL, License #92670

Professional Engineer, GA, License #PE046983

Professional Engineer, IN, License #PE12100166

Professional Engineer, KY, License #26435

Professional Engineer, LA, License #PE.0045970

Professional Engineer, MS, License #31714

Professional Engineer, OH, License #PE.86649

Professional Engineer, TN, License #122011

Professional Engineer, UT, License #8591987-2203

Professional Engineer, WV, License #24653

Structural Engineer, CA, License #6066

Structural Engineer, GA, License #SE001130

Structural Engineer, HI, License #PE – 7310

Structural Engineer, NV, License #025476

Structural Engineer, OR, License #88052PE

Structural Engineer, WA, License #49759

Sample Project Experience:

Fire Damage Assessments

Determine the extent of structural (wood-framed/steel-framed) damage caused by a fire and/or the fire extinguishing efforts. Provide detailed repaired recommendations.

Impact Assessments

Determine the extent of structural (wood-framed/steel-framed) damage caused by impact. Provide detailed repaired recommendations

Flood Damage Assessments

Determine if the structure was damaged by hydrostatic and/or hydrodynamic forces associated with the reported flood event, the extent of pre-existing damage, or if the damage was due to other causes.

Roof Damage Assessments

Perform roof inspections of residential and commercial structures to assess storm related damages such as wind and hail activity and/or cause of moisture intrusion. Evaluations typically include the assessment of materials ranging from asphalt shingles, built up roofing (BUR), modified (asphalt) bituminous membranes, PVC (Polyvinyl Chloride), TPO (Thermoplastic Polyolefin), and EPDM (Ethylene Propylene Diene Monomer).

Foundation Installation Inspection, Bluefield, VA

Inspect and supervise complex foundation pour at a remote location on East River Mountain. Verify foundation reinforcement and anchoring rods installed and supported correctly. Supervise concrete installation, slump tests, and manage specifications for cold joints required due to site conditions.

Professional Experience:

EFI Global, SR Forensic Engineer, 2020 - Present

Vertical Structures, Vice President - Engineering, 2017 - 2020

Vertical Structures, Structural Engineer, 2009 - 2017

Vertical Structures, Project Engineer, 2004 - 2009

Specialized Education:

"ASCE 59-11 Blast Protection of Buildings – Blast-Resistant Design of Systems, and Components," ASCE, December 2022
"Structural Building Condition Surveys," ASCE, December 2022
"Flood Design for a Changing Climate," ASCE, December 2022
"Design of Foundations for Coastal Flooding", ASCE, December 2022
"Settlement Characteristics, Sources, and Movement," ASCE, December 2022
"Seismic Assessment and Strengthening of Buildings in Areas of Low to Moderate Seismicity," ASCE, December 2022
"Investigation of Winter Roof Failures – Lessons Learned," ASCE, February 2021
"Engineering Investigations of Hurricane Damage – Wind versus Water," ASCE, February 2021
"Fatigue of Welded Connections," AISC, April 2020
"Erection Bracing of Low-Rise Structural Steel Buildings," AISC, April 2020
"Vibration Analysis of Steel Joist Concrete Slab Floors," AISC, April 2020
"Building Structures w/ Fluid Viscous Dampers for Seismic," AISC, April 2020
"Serviceability Considerations," AISC, April 2020
"Designing Built-Up Flexural Members," AISC, April 2020
"Connection Design for Moment Frames and Braced Frames – Moment Connections," AISC, February 2020
"Are You Properly Specifying Materials?" AISC, January 2020
"Building Pathology: Parapets & Decks," RedVector, November 2019
"Kinked Connections," AISC, July 2019
"Wind Design using ASCE 7-16," RedVector, October 2018
"Protecting People Against Terrorist Attacks: Design Considerations for Safe Rooms and Shelters," RedVector, October 2018
"Driven Piles: Static Analysis – Pile Groups," RedVector, October 2018
"Soils and Foundations: The Low Down on Dirt," RedVector, October 2018
"Designing Foundation Repairs," RedVector, December 2017
"Coastal Engineering: Hurricanes and Nor'easters," RedVector, December 2017
"Choosing the Best Structural Lateral Force Resisting System," RedVector, December 2017
"Design of Steel Elements for Second Order Effects," RedVector, December 2017
"Seismic Equivalent Lateral Force Base Shear," RedVector, December 2017
"Welded Connections," AISC, June 2017
"A Practical Approach to Designing, Placing, and Protecting Mass Concrete," ACI, June 2017
"Weld Details," AISC, December 2015

Education:

Master of Science, Civil Engineering, University of Kentucky, Lexington, KY, 2005
Bachelor of Science, Civil Engineering, University of Kentucky, Lexington, KY, 2003

Affiliations:

American Society of Civil Engineers (ASCE)