

Joseph Wisniewski, P.E. | Forensic Engineer

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Professional Summary:

Mr. Wisniewski has over 10 years of combined experience in both structural design and forensic engineering. His design experience includes the structural analysis and design assistance for various building envelope systems such as curtain walls, storefront systems, glass skylights, glass canopies, metal panels, and terracotta panels. The building types consist of single family homes, commercial buildings, stadiums, and high rises. His experience also includes wood, steel, concrete, and light gauge design for new build construction and repairs of damaged structures. His diverse forensic experience includes numerous aspects of civil and structural engineering such as: roof assessments, cause and origin of structural failures, water intrusion investigations, fire damage investigations, hurricane/tornado damage assessments, construction vibration damages, construction defects, and assessment of code related concerns/violations. Additionally, Mr. Wisniewski has experience in construction management and transportation infrastructure.

Licenses and Certifications:

Professional Engineer, State of Colorado, #62735

Professional Engineer, State of Florida, #PE-95392

Professional Engineer, State of Georgia, #PE-053629

Professional Engineer, State of Illinois, #062-078448

Professional Engineer, State of Indiana, #12300964

Professional Engineer, State of Iowa, #PE-P27930

Professional Engineer, State of Minnesota, #PE-61072

Professional Engineer, State of Missouri, #PE-2023017514

Professional Engineer, State of Nebraska, #E-20018

Professional Engineer, State of North Carolina, #59371

Professional Engineer, State of North Dakota, #PE-30093

Professional Engineer, State of South Dakota, #16414

Professional Engineer, State of Wisconsin, #PE-49388-6

Federal Aviation Administration (FAA) Part 107 – Certified Remote (Drone) Pilot, #4607881

Vale Advanced Roofing Certification

Level 1 Roof Specific Rope Access Certification

Level 1 Infrasppection Institute Certified Infrared Thermographer, #17438

Licenses and Certifications (Continued):

Certified XL Tribometrist, Certificate Number, 2503070

Project Experience:

Forensic Engineering of Structures

Mr. Wisniewski has experience in investigating failures of a wide variety of structures including residential and commercial roof systems, facades, and structural framing. The failures are typically related to weather events, construction defects, vehicle impacts, or fires.

Soy Bean Silo Failure-Aberdeen, SD

Performed structural analysis using Risa 3D and hand calculations on the as-built conditions and design drawings in order to determine the reason for collapse. The findings were summarized into a technical report.

Vehicle Impact-Kenosha, WI

Performed a forensic engineering assessment of a residential home that was impacted by a vehicle. Confirmed the cause and determined the extent of structural damage to the foundation and framing. Prepared structural drawings for the shoring and repair of the foundation wall and wood framing.

Catastrophe (CAT) Response

Mr. Wisniewski has experience of evaluating catastrophe related damages to residential and commercial structures relating to hurricanes, tornados, floods, and other events.

Hurricane Ian (2022), Hurricane Helene (2024), Hurricane Milton (2024)-Florida

Performed numerous inspections on residential and commercial properties to determine the extent of storm created damages, typically differentiating between flood and wind damage. Provided repair recommendations as needed.

2025 St. Louis Tornado-Missouri

Performed numerous inspections on masonry and wood framed buildings to determine the extent of wind related damages and provided recommendations for repairs.

Low Slope and Pitched Roofs

Mr. Wisniewski has performed numerous inspections on both residential and commercial roofing systems for storm related damages, construction defects, and age related deterioration. Pitched roofing materials include asphalt shingles, wood shakes, slate tiles, concrete and clay tiles, metal panels, and other products. Low slope roof coverings include modified bituminous membranes, built up roofing (BUR), PVC membranes, TPO membranes, and EPDM membranes.

Aurora Roof Project-Aurora, IL

Performed a multiple day joint inspection to determine the extent of hail damages of more than 40 buildings that were impacted by a severe hailstorm. The majority of buildings consisted of pitched roof structures with asphalt shingles. Buildings with low slope roof structures covered with modified bitumen membranes and EPDM membranes were also included in the scope.

Project Experience (Continued):

Roof Assessment-Onawa, IA

Performed a multiple day inspection to determine the extent of hail and wind damage to several roof structures at a healthcare center. Roof materials included EPDM, TPO, metal panels, asphalt shingles, and spray foam coatings.

Building Enclosure Consulting

Mr. Wisniewski has experience in performing structural analysis and providing design assistance on various types of building enclosure systems.

Curtain Wall System-Optima Lakeview Apartments, Chicago, IL

Performed structural analysis on the unitized curtain wall system for the entire exterior of the building. Analysis included all aluminum mullions, glass, and connections to building substrates.

Aluminum Panel System-So-Fi Stadium, Inglewood, CA

Performed design assistance and structural analysis of aluminum panels, corresponding sub-framing, and connections to building substrate throughout the stadium.

Glass Fiber Reinforced Concrete-Sumner County Courthouse, Sumner County, TN

Performed structural analysis and design assistance on glass fiber reinforced panels on the exterior portion of building. The project consisted of 3D modeling and finite element analysis of all panels.

Highway Bridge Construction

Mr. Wisniewski has experience with state highway and bridge construction projects.

I-75 Modernization Project, Dayton, OH

Assisted ODOT engineers in overseeing the modernization of I-75 in downtown Dayton. Performed various inspections such as checking material quantities, concrete testing, and verifying field dimensions with design drawing dimensions.

Professional Experience:

EFI Global, Forensic Engineer, 2023-Present

EFI Global, Forensic Consultant, 2021-2022

Larson Engineering, Inc., Engineer, 2016 – 2021

Ohio Department of Transportation, Engineer Intern, 2014-2015

Education:

Bachelor of Science, Civil Engineering, The Ohio State University, Columbus, Ohio, 2015

Affiliations:

American Society of Civil Engineers (ASCE)