
John P. Gilewicz | Principal Structural Engineer, P.E., CXLT, CIT

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Professional Summary:

John is a licensed Structural Engineer in multiple jurisdictions throughout the United States. Prior to joining EFI, John owned and operated his own consulting firm, specializing in the design, construction, and forensic analysis of a wide array of structures and facilities. During the 25 years managing the company, John was responsible for the design of more than 15,000,000 square feet of commercial, retail, and institutional space. In addition, John has provided extensive Structural Analysis and Design services to a wide array of Fortune 500 companies across the United States, Canada, and Mexico. Clients include General Motors, Delphi, Anheuser Busch, and Alcoa Aluminum.

John has also provided services to various governmental agencies including the U.S. Army Corps of Engineers, the United States Navy, and the National Aeronautics and Space Administration.

John's work often involved the design of complex systems and facilities, including large scale industrial foundations and framing for manufacturing and process equipment requiring dynamic analysis. This work included the dynamic analysis of large complex foundations as well as the investigations of failed foundations and the design of foundation repairs.

In addition to more than 25 years of Professional Design experience, John has also performed numerous forensic investigations for all types of structures including single family residences, commercial structures, and industrial facilities. This work has included providing Expert Witness testimony in New York, Massachusetts, Maine, and Vermont.

John is also a member in the American Society of Civil Engineers, the American Concrete Institute, the American Institute of Steel Construction, the American Wood Council, and the National Society of Professional Engineers.

John has specialized in the detailed analysis of slip and fall and trip and fall losses. He is a Certified Tribometrist, and has provided extensive code analysis based on current and historic codes. He is also a Certified Infrared Thermographer, and has analyzed numerous roofs to determine the extent of water infiltration beneath roof membranes. He is also an Unmanned Aerial Vehicle operator, licensed by the FAA.

John's expertise includes, but is not limited to:

- Analysis, design, and repair of large foundations.
- Design of wood, timber, and masonry framed structures.
- Design of steel framed commercial, institutional, and retail facilities.
- Construction failure investigations.
- Slip and Fall Investigations.
- Trip and fall investigations.
- Current and historic Code and Standards analysis and interpretation.

Licenses and Certifications:

Professional Engineer, Connecticut, #21194
Professional Engineer, Florida, #81453
Professional Engineer, Illinois, #062-052741
Professional Engineer, Maine, #14302
Professional Engineer, Massachusetts, #33699
Professional Engineer, Michigan, #43447
Professional Engineer, Minnesota, #26664
Professional Engineer, New Hampshire, #15133
Professional Engineer, New York, #068208
Professional Engineer, Ohio, #E-63218
Professional Engineer, Pennsylvania, #PE05069
Professional Engineer, Rhode Island, #0011917
Professional Engineer, Wisconsin, #33212
Professional Engineer, Vermont, #18.0115148
National Engineering Registration, NCEES, 17-419-63
Certified Excel Tribometrist (2016)
Certified Infrared Thermographer (2020)
FAA Part 107 Small Unmanned Aircraft Systems (sUAS) Remote Pilot Certification

Project Experience:

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

Starrag Milling Machine Foundations, Philadelphia, PA Foundation Designs

Designed numerous foundations to support large scale milling machines used to manufacture ship propellers. Included design of pile foundations.

Anheuser Busch, Multiple Locations Dynamic analysis of machine foundations

Failure analysis of machine foundations supporting high speed can manufacturing equipment. Work included dynamic analysis, determination of failure mode, and design of repairs.

**National Aeronautics and Space Administration & Lockheed Martin
Design of Mobile Launch Mock-up Platform**

Designed mockup of a portion of the existing Mobile Launch Platform used at Cape Kennedy. Used to test launch components for the Atlas V rocket system.

**Homewood Suites, Amherst, NY
Structural Design of Six Story Masonry Hotel**

Complete design and Engineer of Record Construction Monitoring for a six-story masonry and plank hotel, including shear wall design and reinforcement for lateral loads including wind and earthquake.

**Construction Failure Investigation
Failed City Municipal Sewer Lines, Portland ME**

Investigated the origin and cause for the failure of newly constructed municipal sewer lines.

**Slip and Fall Investigation
Restaurant, New Jersey**

Evaluated the construction, maintenance, and slip resistance of a flooring system at a national chain restaurant.

**Trip and Fall
Wooster, MA**

Investigated an alleged trip and fall loss. Work included code analysis for both current and historic codes, construction of stairs, railings, and landings, and an evaluation of the site lighting.

Court Qualifications/Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Principal Structural Engineer, 2020-Present

EFI Global, Senior Forensic Engineer/Team Lead, 2018-2020

EFI Global/Unified Investigations and Sciences, Senior Forensic Engineer, 2014 - 2018

Parker Bay Engineering, President, 1990 - 2015

Structures Engineering, Chief Structural Engineer, 1982 - 1990

Specialized Education:

Repairs of Wood Trusses, 2018

Forensic Engineering and Analysis of Metallurgical Components, 2018

Mechanical Engineering, 2018

Fire Safety of Wood, 2018

Evaluation of Existing Structures, 2018

Determining Negligence in Engineering Failures, 2018
Certified Licensed Tribometrist, 2017
Certified Commercial Roof Inspector, 2015
Certified Residential Roof Inspector, 2016
Globally Harmonized System of Classification and Labeling of Chemicals, 2015
Forensic Investigation, 2015
Failure Appraisal, 2015)
How Things Break: Fatigue, 2015
Biodeterioration of Wood, 2015
Finding the Root Cause, 2015
Construction of Residential Buildings in Coastal Areas, 2015
The Green Effect, 2015
Drainage Design: What Year Event Really Means, 2015
Design Considerations and Construction Technologies for Modern Wood Buildings, 2015
Introduction to Construction Safety, 2015
Engineering Triumph: Living Large and Material World, 2015
Fuses and Circuit Breakers Operation and Coordination, 2015
Design of Heavy Timber and Sawn Wood Construction, 2014
Heavy Timber and Sawn Wood Construction, 2013
Building Demolition, Planning, and Execution for Design Professionals, 2013
Steel Design, 2013
Geotechnical Exploration and Construction Materials, 2013
The Green Turbine, 2013
Pitfalls of Unreinforced Masonry Construction, 2013
Wind Loading: Design of Wind Resistant Buildings and Structures, 2013
Restoration and Rehabilitation of Historic Buildings, 2012
Engineering Ethics: Engineering Failures in History, 2012
Design and Construction of Continuous Flight Augur Piles, 2012
Structural Vibration Frequency Analysis of Beams, 2012
Full Depth Repair of Concrete, 2012
Residential Guide to Earthquake Design, Part 1 and 2, 2011
Design of Heavy-Duty Concrete Floor Slabs on Grade, 2011
Admixture Design and Specification for Concrete, 2011
Steel Column Design: Comparison between ASD/LRFD Steel Construction Manual
Seismic Restraint for Mechanical Equipment, 2010
Excavation Hazards, 2010
Cold Weather Concrete Placement, 2010
Vapor Barriers Under Concrete Slabs – Selection and Location, 2010
Mechanical Properties of Wood, 2010
Earthquake Design of Equipment and Supports: Response Spectrum Method, 2010

Education:

Bachelor of Science in Civil Engineering, Columbia University in the City of New York, New York, NY, 1981

Affiliations:

Member, American Concrete Institute (ACI)



Member, American Institute of Steel Construction (AISC)

Member, American Wood Council (AWC)

Member, National Society of Professional Engineers (NSPE)

Courses Instructed/ Guest Lecturer:

“Slip and Fall Claims and Investigations”

“My foundation is cracked – what should I do?”

“House construction from the ground up”

“Making Assumptions without a Proper Investigation”

Publications and Presentations:

Gilewicz, John, “Body Makers: Reducing Downtime and Costly Repairs” , Can Tech Magazine, 2009