



Vincent Fratinardo

SE, RRC, PE

Regional Manager and Director, Engineering

Department

Engineering Services

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Locations

Chicago, IL

Biography

Vince is a civil/structural engineer with specialized expertise in the design and assessment of roofing systems. He has over 20 years of experience including civil and structural engineering analysis, design, construction administration, field investigation, and project management. For the last 14 years, Vince has dedicated his practice to forensic engineering and the investigation and analysis of damage and failures to existing buildings and structures.

Vince has designed numerous new buildings, building additions, building renovations, and mechanical platforms and supports. He has designed and analyzed roof, wall and floor framing systems utilizing steel, concrete, masonry, and wood construction. Vince has extensive expertise in commercial, industrial, agricultural, municipal, educational and residential building damage investigations, including on-site investigations after 26 different tornado events, and Hurricanes Irene, Sandy, Matthew, Harvey, Irma, Maria and Florence.

He has performed litigation support services including testimony at depositions, arbitration hearings, and trials. He has prepared and performed numerous continuing education presentations on an array of topics in forensic engineering, structural engineering, and building codes in multiple states.

Credentials

- SE | Structural Engineer
- RRC | Registered Roof Consultant
- PE | Professional Engineer

Representative Consulting Assignments

- High-end Retail Stores | Chicago, IL | Vibration damage evaluation to multiple high-end retail stores due to nearby construction activities.
- Building Envelope Evaluations | Midwest and southeast states | Evaluation of building envelopes, facade sealants and windows following high wind, tornado and hurricane events.
- Agricultural facilities | Midwest states | Structural analysis and failure investigations of numerous steel and concrete grain storage bins and agricultural wood buildings.
- Wind damaged wood frame buildings | Midwest states | Analyze code requirements and develop repair drawings for various failures including metal plate connected trusses and truss bracing.
- Fire Damage Restoration Project | Winnipeg, Manitoba, Canada | Investigation of fire damage and structural design to restore manufacturing building to pre-loss condition.
- Hurricane damage assessments of numerous large-scale hotels | Daytona Beach, Florida | Document hurricane damage and provide general repair recommendations. Hurricane Matthew (2016).
- Fire Damage Evaluation | Dubai, United Arab Emirates | Investigation of fire damage and structural assessment of high rise hotel building.

- Hurricane damage assessments of numerous educational, hotel, and multi-unit residential buildings | South Texas and Florida | Hurricanes Harvey (2017) and Irma (2017).

Professional Experience

- 2023 - Current | Regional Manager and Director, Engineering | YA Engineering Services
- 2021 - 2023 | Senior Managing Engineer | YA Engineering Services
- 2019 - 2021 | Senior Regional Supervisor | YA Engineering Services
- 2015 - 2018 | Vice President | Thornton Tomasetti
- 2006 - 2014 | Central Region Property Division Manager | Rimkus Consulting Group

Area of Practice

- Building Code Upgrade Review
- Building Envelope
- Damage Assessment
- Failure Analysis
- Litigation Support
- Roofing
- Structural Analysis
- Water Leakage Testing and Analysis

Publications and Presentations

- Fratinaro, V.F. & Schroeder, S.A., Lessons Learned: How Changes in Code, Construction and Preparedness Affected Tornado Damage in Moore, Oklahoma, 1999 to 2013, ASCE Structures Congress
- Fratinaro, V.F. & Schroeder, S.A., Accuracy of EF Ratings Following a Tornado Event: An Engineer's Perspective, ASCE Structures Congress
- Fratinaro, V.F. & Schroeder, S.A., Historical Study of the Wind Design Provisions of ASCE 7, ASCE Structures Congress

Education

- Michigan State University - Bachelor of Science - Civil Engineering (Structures)
- Texas A&M University - Master of Engineering - Civil Engineering (Structures)

Affiliations

- National Roofing Contractors Association (NRCA)
- Chicago Roofing Contractors Association (CRCA)
- Registered Roof Consultant - IIBEC (2014)
- Chicago Area Chapter of IIBEC
- IIBEC (International Institute of Building Enclosure Consultants) Consultant Member

Licenses

- CE-168652 - Alaska - Professional Engineer
 - 18463 - Arkansas - Professional Engineer
 - PE.0053749 - Colorado - Professional Engineer
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- 66135 - Florida - Professional Engineer
 - 34723 - Georgia - Professional Engineer
 - 81006922 - Illinois - Structural Engineer
 - 62059375 - Illinois - Professional Engineer
 - PE10809629 - Indiana - Professional Engineer
 - 19372 - Iowa - Professional Engineer
 - PE26487 - Kansas - Professional Engineer
 - 28043 - Kentucky - Professional Engineer
 - PE.0042875 - Louisiana - Professional Engineer
 - 41232 - Maryland - Professional Engineer
 - 49454 - Massachusetts - Professional Engineer
 - 6201053155 - Michigan - Professional Engineer
 - 45306 - Minnesota - Professional Engineer
 - 29414 - Mississippi - Professional Engineer
 - PEL-PE-LIC-86780 - Montana - Professional Engineer
 - E-17240 - Nebraska - Professional Engineer
 - 90507 - New York - Professional Engineer
 - 47438 - North Carolina - Professional Engineer
 - PE-28144 - North Dakota - Professional Engineer
 - E-75773 - Ohio - Professional Engineer
 - 30590 - Oklahoma - Professional Engineer
 - 95472PE - Oregon - Professional Engineer
 - PE079807 - Pennsylvania - Professional Engineer
 - 3631 - South Carolina - Professional Engineer
 - 122678 - Texas - Professional Engineer
 - 402049763 - Virginia - Professional Engineer
 - E-38924 - Wisconsin - Professional Engineer
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