Craig Buechele, P.E. | Forensic Engineer

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Professional Summary:

Craig is a Professional Engineer licensed in multiple jurisdictions throughout the United States. Prior to joining EFI, Craig worked for a structural engineering firm located in Newburgh, NY where he was responsible for the design of modifications for buildings, antenna mounts, equipment platforms, water tanks, foundations, and shoring. Since joining EFI, Craig has performed hundreds of forensic investigations for all types of structures including single family homes, commercial structures, and industrial facilities.

Areas of Expertise:

- Design of steel, timber, masonry, and concrete framed structures
- Proficient in engineering analysis programs including RISA 3D, SAFE, PLS, Enercalc, Mathcad, L-pile, Shoring Suite, Microsoft office products, and AutoCAD.
- Code Analysis
- Cause and origin assessment of weather-related insurance claims
- Construction Failure Investigations
- Trip and Fall Investigations

Licenses and Certifications:

Professional Engineer, New York, License#: 097219
Professional Engineer Civil, New Jersey, License#: 24GE05540600
Professional Engineer, Pennsylvania, License#: PE093767
Professional Engineer, Connecticut, License#: PEN.0036328
Professional Engineer Civil, Massachusetts, License#: 57793
Professional Engineer Civil, Rhode Island, License #: 14873
Professional Engineer, New Hampshire, License #: 17935
Professional Engineer Civil, Vermont, License #: 18.0135704
Professional Engineer, Maine, License #: 18323
Professional Engineer, Louisiana, License#: 46818
Professional Engineer, Florida, License#: 94137
Professional Engineer, Texas, License#: 145279
Professional Engineer, Michigan, License#: 6201313172
National Engineering Registration, NCEES, 13-456-27

Project Experience:

Hurricane Ian Storm Damage, Unnamed Insurance Companies, Fort Myers, FL
Origin & Cause Wind vs. Flood inspections at 50+ properties
The site investigations involved assessing the cause of damage to the subject properties and differentiating between wind vs. flood damages. The inspections were performed at multiple properties including residential and commercial structures.

Chubb Group of Insurance Companies, Hail investigations, Dallas-Fort Worth TX
Investigated multiple commercial building and residential roofs for wind and hail claims following multiple CAT events in the Dallas-Forth Worth area of Texas.

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Trip and Fall Investigations, Multiple Jurisdictions
Investigated trip and fall claims throughout the northeastern United States to elevated walkway surfaces for code compliance and walkway safety. Work included the evolution of floors, stairs, railings, and landings.

Verizon Wireless Switch, Rochester, NY
Conversion of existing office building to Verizon Wireless data center. Scope included removal of existing floor slab and extensions of existing building columns to accommodate raised computer room floor. Design of foundations and retaining walls for two new Megawatt diesel generators. Design of new steel framing to support electric and fiber feeder lines in new computer rooms.

FedEx Distribution Center, Newburgh, NY
Retrofit of existing warehouse building structure to accommodate new loading docks and HS-20 truck-loads. Reinforcement of existing steel framing, design of shoring and relocation of existing columns and lateral bracing. Design of new retaining walls and lintels.

Continental Manor Condominiums, New Windsor, NY
Structural design and analysis of timber framing reinforcement. The installation of new foundations and load bearing walls to re-distributed load on the structure to achieve a passing condition. Design of support of excavation for new foundations. Attended periodic inspections and final signoff upon completion.

T-Mobile Site NJ05542D Union City, NJ
Repair of existing wood roof after cracking & bowing observed below existing T-Mobile Ballast Mount. Used microlam beams with shroud to match existing appearance. Design of temp shoring required to accommodate reinforcement installation.

Maimonides Medical Center Brooklyn, NY
Structural analysis and design of cold-formed steel curtain walls at hospital in Brooklyn, NY. Coordinated with architect, window vendors, and façade manufacturers for design weights and layout requirements.

160 East 70th Street New York, NY
Design and analysis of underpinning required for basement excavation in Manhattan three (3) story town house. Design of support of excavation and trench boxes as required to accommodate installation.

Professional Experience:

EFI Global Inc., Forensic Engineer, 2022-Present
Tectonic Engineering & Surveying Consultants P.C., Senior Engineer, 2012-2022
Department of Transportation, Transportation Construction Inspector, 2011-2012

Education:

Master of Engineering, Civil Engineering, Rensselaer Polytechnic Institute, Troy, NY, 2012.
Bachelor of Engineering, Civil Engineering, Rensselaer Polytechnic Institute, Troy, NY, 2012.
Associate in Science, Engineering Science, Dutchess Community College, Poughkeepsie, NY 2009.

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