efi global

Craig Buechele, P.E. | Civil/Structural Engineer

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Professional Summary:

Professional Engineer with 12+ years' experience in the structural engineering field. Currently licensed in twelve (12) states, and proficient in the design of modifications for buildings, antenna mounts, equipment platforms, water tanks, foundations, and shoring. Also proficient in the analysis of existing buildings to check for structural adequacy for renovations and new equipment installations.

Areas of Expertise:

- Proficient in engineering analysis programs including RISA 3D, SAFE, PLS, Enercalc,
  L-pile, Shoring Suite, Microsoft office products, and AutoCAD.
- Oral and written communication skills.
- Budgeting and scheduling.
- Customer service and client relations.

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, Maine, License #: 18323
Professional Engineer, Louisiana, License#: 46818
Professional Engineer, Florida, License#: 94137
Professional Engineer, Texas, License#: 145279
Professional Engineer, Michigan, License#: 6201312172

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.

Verizon Wireless Switch, Rochester, NY
Building Additions and Alterations
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
Building Additions and Alterations
Retrofit of existing warehouse building structure to accommodate new loading docks and HS-20 truckloads. 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 and foundation reinforcement of existing condominiums
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.

Verizon Wireless W 57th & 7th New Site Build, New York, NY
New Site Build (Macro Site)
Design of new equipment platform, antenna mounts and stairway access on rooftop of existing steel framed building. Design of steel reinforcement of existing beams & columns required to support the Verizon Wireless installation.

T-Mobile Site NJ05542D Union City, NJ
Roof reinforcement and repair
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
Curtain Wall Design
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
Underpinning Design
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., Civil/Structural Engineer - Telecom, 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.