

Donna Barden | Forensic Engineer, P.E.

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Professional Summary:

Ms. Barden has 9 years of experience in construction investigations including structural engineering inspections of steel, masonry, and concrete assemblies. She has advanced knowledge of the Special Inspection requirements as specified in the NYC Building Code, OSHA rules and regulations. She has gained design experience analyzing wood framing in churches and residences.

Licenses and Certifications:

Professional Engineer, NYS Office of the Professions, New York, #101314

Professional Engineer, State Board of Professional Engineers and Land Surveyors, New Jersey, #24GE05632600

Professional Engineer, State Board of Rhode Island, #14520

Professional Engineer, State Board of Connecticut, #PEN.0036171

Project Experience:

EFI Global, Pennington, NJ

Flood Damage Assessment. Analyzed grading and basement partitions to verify cause of water infiltration.

EFI Global, Wenonah, NJ

Tornado Assessment. Reviewed residence damages to roof, exterior and interior partitions in order to determine cause of damage and analyze structural stability of remaining roof members.

AK Engineering, NY/NJ

Director of Structural Inspections. Oversaw renovation of a number of residential and commercial buildings throughout the metropolitan area. Responsibilities on site included reviewing and interpreting building code requirements pertaining to design and as-built documentation, identifying and communicating the field discrepancies by preparing daily reports to locate and describe the deficiencies and the percentage of project completion.

AK Engineering, Bronx, NY

Senior licensed inspector of new construction of a 16-story masonry and precast concrete residential building at 117,000 SF containing 116 units complete with green roof and solar panels. Responsible for identifying construction defects related to the proper installation of reinforcement within masonry walls and the repair of improperly consolidated grout.

AK Engineering, Brooklyn, NY

Senior licensed inspector of façade renovation of landmarked church into condominiums at 26,000 SF. Conducted masonry and post installed anchor inspections for the repair of a deteriorated façade accounting for engineering tolerances permitted for these trades, and ensured the installation was code compliant.

AK Engineering, Manhattan, NY

Conducted structural stability inspections of wood framing and fastening for the reinforcement of a roof of a landmarked apartment.

Professional Experience:

AK Engineering, Director of Structural Inspections, 2019–2021

AK Engineering, Licensed Field Engineer/Inspector 2013-2019

Langan Engineering, Civil Engineer, 2012-2013

Specialized Education:

Vale Advanced Roofing Seminar - March 2022

Professional Ethics for New York Engineers, PDHengineer.com- April 2022

Professional Practice Ethics for New Jersey Engineers, PDHengineer.com- April 2022

The Minnesota I-35W Bridge Collapse, PDHengineer.com- April 2022

Concrete: Partial Depth Repair, PDHengineer.com- April 2022

Concrete Distress and Deterioration, PDHengineer.com- April 2022

An Introduction to Low Impact Development, PDHengineer.com- April 2022

Mechanical Properties of Wood, PDHengineer.com- March 2022

Education:

Bachelor of Engineering, Civil Engineering, Stevens Institute of Technology, Hoboken, New Jersey, 07307, 2012.