



Eagle Engineering

6 South Haven Drive, East Northport, NY 11731

Phone: (631) 796-4274 Fax: (631) 462-1547

Residential & Commercial Inspections, Evaluations, and Designs

Professional Qualifications

Robert J. O'Connor, PE Principal, Eagle Engineering

Career Summary

Experienced Building Engineer and Structural Engineer, with significant practical experience, education, and training. Licensed Professional Engineer with BSCE in Civil Engineering, AS in Engineering Science, and AAS in Construction and Civil Engineering Technology. Over twenty years of experience with residential and commercial inspections, evaluations, and designs. Professional engineering consultant for residential and light commercial buildings including field evaluations and designs for repairs, rehabilitations, and expansions. Plan review and field inspections for new construction, rehabilitations, and repair projects. Periodic Phased Construction Inspections for builders, lenders, and buyers. Design of rooftop equipment installations. Adjunct Professor for building construction, building codes, estimating, and building inspection. Senior committee member and consultant for the largest building inspection association in the US. Also commercial and residential field construction experience with masonry construction and HVAC systems. Expert in building and structural design and standards, and qualified expert witness on building design and construction.

Specific Experience

Professional Consulting Engineer: September 1993 to Present
Eagle Engineering, East Northport, NY

Principal and sole proprietor of engineering company specializing in inspections, investigations, evaluations, repairs, and designs for residential and light commercial projects. Design of expansions, rehabilitations, and structural repairs. Structural and site work designs in consultation with architects. Design of bulkheads, retaining walls, septic systems, and other site work. Design of rooftop equipment installations. Building inspections, phased home construction inspections, pre-purchase home inspections, structural evaluations, building code evaluations, construction field changes working with buyers, lenders, architects, and builders. Building legalizations and local zoning variances, and structural forensic investigations and expert witness testimony.

Adjunct Professor: January 2003 to Present
Long Island University (LIU), CW Post and Southampton Campus, NY

Adjunct Professor for LIU in the Construction Management and Home Inspection Certificate programs. Senior Instructor for General Practice & Reports, Residential Inspection, Structural Inspection, Residential Building Codes, Plumbing Inspection, Construction Estimating, and Field Inspection courses. Teach courses based on personally prepared Course Handout Notes, Residential Construction Handbook, Residential Code of New York State, building code guides, Means construction cost guides, and various residential and commercial inspection books. Develop program and course content, write course materials, prepare handouts, and prepare computer based visual presentations and course materials.

Residential Inspection Consultant: June 2003 to Present

National Association of Certified Home Inspectors, Valley Forge, PA

Assist with building code, structural, electrical, and general building issues related to inspection and evaluation of residential dwellings. Assist with preparation of educational materials and inspection standards, lecture on building code and structural topics, and serve on the Education Committee.

HVAC System Designer & Mechanic: June 2003 to Present

Chapman Air Systems, Ronkonkoma, NY

Design and layout of residential HVAC systems, including load calculations. Also responsible for design and layout of structural supports and wiring systems, code compliance verification, and quality control assurance. Installation of residential air condition systems, boilers, furnaces, and water heaters. Fabrication and installation of equipment, ductwork, piping, power circuits, and control wiring.

Chief Building Inspector: June 2004 to July 2005

Village of East Hills, Nassau County, NY

Building Department Superintendent and Chief Building Inspector responsible for residential and commercial plan review and inspection of site work, general building, foundations, framing and structural systems, mechanical systems, plumbing systems, and electrical systems. Review and assist with development of local code provisions and requirements. Perform all inspections, particularly those for more complicated or larger projects, develop inspection and permitting guidelines as well as procedures, assist with developing web based permitting, and oversee general building department operations.

Senior Engineer & Project Manager: April 1995 to May 2004

WFC & Associates, Syosset, NY

Inspections, evaluations, designs, and project management for residential and commercial projects. Manage projects and perform designs for commercial buildings, specialty rooftop equipment installations, interior modifications and rehabilitations, and evaluation and reinforcement of existing buildings and structures. Prepare designs and perform inspections related to various residential and commercial municipal and telecommunication facilities. Provide expert testimony at hearings related to design and code issues. Provide assistance to local municipalities including plan reviews, design checks, inspections, and building code issues. Work as an interim Building Inspector for various municipalities. Manage small to medium design and inspection projects, review completed drawings and designs, and manage design and drafting personnel. Specialty areas included building designs and evaluations, structural engineering, communication facility designs, plan reviews, building inspections, codes enforcement, and building code requirements.

Senior Engineer: May 1989 to April 1995

Sidney B. Bowne & Son, Mineola, NY

Design and construction phase engineering and inspections for various building and municipal projects. Design of foundations, buildings, waterfront facilities, and public works facilities. Manage small design and inspection projects. Assist with plan reviews, building code reviews, and construction inspections for various banks and local municipalities, including phased residential construction inspections

Construction Inspector and Designer: June 1985 to May 1989

Sidney B. Bowne & Son, Mineola, NY

Perform construction inspections and testing for various building and municipal projects. Act as owner's on-site representative, perform on-site and laboratory testing, write inspection reports, and coordinate construction activities with project manager and owner. Check design calculations, review construction phase shop drawings, review contractor submittals, and prepare construction cost estimates.

Assistant Foreman: July 1980 to September 1983

Clauss Construction, Munich, West Germany

Mason and assistant layout foreman for residential and commercial housing projects. Review building plans and lay out construction. Build masonry elements, and perform walk-through inspections with the building designer and job superintendent to ensure compliance with the plans.

Licenses

Licensed Professional Engineer, New York State
NY PE License #70539, Civil Engineering, 1993

Education

Bachelor of Science in Civil Engineering; BSCE December, 1993
Polytechnic University, Farmingdale, NY (Summa Cum Laude)

Associate of Science in Engineering Science; AAS May, 1989
State University of New York at Farmingdale, Farmingdale, NY

Associate of Applied Science in Construction Technology; AS May, 1985
State University of New York at Farmingdale, Farmingdale, NY

Special Skills

Extensive practical and theoretical experience and training. Familiar with building design and inspection standards, New York State Building Codes, ICC Building Codes, IRC residential building code, City of New York Building Codes, and local municipal codes and zoning regulations. Computer literate with Web and Windows based systems and software. Familiar with various residential and commercial building, structural, and code evaluation and design spreadsheets and programs.

Memberships

- American Society of Civil Engineers
- Structural Engineering Institute (SEI Charter Member)
- New York State Certified Code Enforcement Official
- National Association of Certified Home Inspectors (Member #03062206)
- International Association of Repair Specialists (ICRI)

References (Available Upon Request)