



**Timothy W. Ott, B.S., P.E.**

*Regional Manager*

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FIRM SERVICES

**Forensic Engineering, Forensic Architecture,** Cost Estimating and Appraisal, Umpiring Disputes, Roofing System Assessment, Discovery Laboratory, Materials Science, Environmental Consulting, Fire Investigations, Evidence Storage, Animation and CAD.

AREAS OF EXPERTISE

Residential and commercial buildings and structures, cause & origin, analysis and design. Investigations of concrete, masonry, steel, wood (prefabricated components, heavy timber and engineered lumber), cold-formed steel and other materials. Assessments of structures and individual components of structures that have sustained damage from perils such as accidents, collapses, construction defects, design errors, fire, failures, tornadoes, hail, hurricanes, settlement, veneer/cladding failures, water intrusion, windstorms, decay and insect damage.

EDUCATION

**B.S. in Civil Engineering**

Johns Hopkins University, Baltimore, Maryland, 1989

EXPERIENCE

Over twenty-three years of experience in structural engineering design for new commercial and residential buildings and structures. Structural design, analysis and inspections for building alterations, change of occupancy, new additions & alterations, and structural reinforcement of gravity and lateral force resisting systems including temporary (installation) and permanent bracing. Design and analysis of steel, concrete, masonry, wood, cold-formed steel and other proprietary construction materials and components, including a special heavy timber roof system for a hotel casino in the Dutch Caribbean islands. Non-destructive, in-situ and laboratory testing of construction materials and full-scale components, including the material condition evaluation of two embedded timber poles, 135 feet in height, used to suspend a military aircraft as part of an ordnance test program. Inspection and evaluation Fire Retardant-Treated (FRT) lumber, plywood and prefabricated components.

Preparation of technical reports, structural calculations, computer analysis, coordination with design professionals, development of construction drawings, shop drawing review, specification development and construction administration. Third-party audits of manufacturing quality assurance programs.

Forensic experience includes investigation, analysis and remedial repair related to design deficiencies, snow loading, wind loading, vibration and construction defects, including a 40,000-square-foot collapse of a 400,000-square-foot regional retail store under heavy snow load.

INDIVIDUAL LICENSURE Licensed Professional Engineer in states of Alabama, Arizona, Colorado, Connecticut, Delaware, Florida, Georgia, Iowa, Indiana, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Mississippi, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Texas, Virginia, West Virginia, Wisconsin, and in the District of Columbia.

Registration with the National Council of Examiners for Engineering and Surveying.

State licenses, registrations and/or certifications listed on this resume apply only to this professional as an individual. Nelson Architectural Engineers, Inc. dba Nelson Forensics, Nelson Forensics, LLC, Nelson Forensic Architects, PLLC, Nelson Forensic Engineers, Inc. and their subsidiaries or assigns offer firm professional services only in states where they are authorized. No offer of firm services is made in states where the previous entities are not authorized or registered.

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES Member American Society of Civil Engineers (ASCE)  
Member Structural Engineering Institute  
ANSI/TPI 1 Project Committee Member  
ANSI/TPI 2 Project Committee Member

PUBLICATIONS "Metal Plate Connected Wood Trusses," Co-Author, Wood Design Focus, 1995.

Metal Plate Connected Wood Truss Handbook, Contributing Editor, WTCA, 1993.