

PROFESSIONAL SUMMARY

Licensed professional engineer with thirty nine years experience performing and managing civil, structural and environmental investigation, development and construction projects. He has acted as project manager and owner's representative for numerous retail, commercial, industrial, and manufacturing facility building efforts throughout the United States and internationally. He has managed approximately 100 asbestos & lead surveys, and abatement projects from New York to Florida as well as performing over 100 due diligence and condominium conversion investigations. His experience in design and construction has led him to be called on to perform over 780 forensic failure analyses including construction defects/disputes, structural, roofing, plumbing, foundation, waterfront, underwater, geotechnical, water infiltration, product defect, lightning, production piping, slip/trip and fall, and fire/explosion origin and cause investigations.

SPECIAL QUALIFICATIONS

- Qualified Professional Engineer, Licensed in Florida, Connecticut and New York, with 39 years of Civil Engineering and construction experience.
- Seven years of Environmental Engineering experience with expertise in asbestos, lead-based paint, underground contamination, indoor air quality, hazardous waste, water and air quality, and PCB's.
- Certified Fire and Explosion Investigator.
- Previously Certified as an English XL Tribometrist for slip testing of walking surfaces.
- Experience as a contractor, consulting engineer and owner's representative resulting in strong knowledge of construction from all perspectives.
- Three years of international experience in the Caribbean, South America and Africa.
- Has provided testimony for cases in Circuit, Superior, and U.S. District courts.

PROFESSIONAL EXPERIENCE

2005 to Present: **Applied Forensic Engineering, LLC**
Orlando, Florida
Principal

Owner and Principal Engineer responsible for all aspects of the business. Performs forensic investigations of construction defects, civil, structural, building envelope, and waterfront failures; fire origin and cause, product defect and slip/trip and fall investigations, including case presentation and courtroom testimony. Performs inspections in accordance with Florida Statutes relating to condominium conversions.

2003-2005 **Forensic Analysis & Engineering Corporation**
Raleigh, North Carolina
Regional Branch Engineering Manager

Responsible for the supervision of all engineering activities in the Orlando, Florida Regional Office. Performed forensic analysis of civil, structural, roofing, waterfront structure and environmental engineering failures, including case presentation, and courtroom testimony. Performed inspections in accordance with Florida Statutes relating

to condominium conversions. Responsible for Orlando Office P&L, staffing and organization, as well as assistance with the firm's growth, continuing community relations, development, and training efforts.

2001-2002 **Binswanger, CBB**
Orlando, Florida
Project Manager

Worked as an Owner's representative providing coordination between design team, contractor, vendors and owner. Services included selecting the architect, directing design work, selecting the contractor, directing progress, resolving problems and coordinating with the Owner's Vendors to ensure a complete, ready to move-in project.

2000-2001 **Harbco Construction, Inc.**
Orlando, Florida
Project Manager

On-site project management of commercial projects from procurement, subcontracting, scheduling, construction and punch-out.

1999-2000 **Sunterra Corporation**
Orlando, Florida
Project Manager

Provided management of new and renovation hospitality projects in six locations in South Florida and the Caribbean. Responsibilities included directing design, budgeting, permitting, procurement of owner-supplied materials, supervising construction, problem resolution and final punch-out. Also provided defect analysis and technical support for various maintenance and operational projects at the six resorts.

1996-1999 **M.G. McLaren, P.C. Consulting Engineers**
Orlando, Florida and West Nyack, New York
Senior Project Manager

Managed civil, structural, waterfront and geotechnical investigation and design assignments. Also directed condition assessments and failure investigation projects. Responsibilities included on-site investigations, engineering design, preparation of plans and specifications, bidding, permitting, construction phase management, marketing, proposal preparation, presentations and client coordination.

1993-1996 **Law Environmental P.E., P.C. (Division of Law Companies Group)**
New York, New York
Manager - Facilities Engineering

Initiated the start-up of the Facilities Engineering department and was responsible for P&L, annual planning, marketing and personnel management. Services included due diligence building condition surveys and forensic investigations of roofing, pavement, building envelope, structural, geotechnical and mechanical/electrical/plumbing systems. Asbestos, lead-based paint, Americans with Disabilities Act and electromagnetic field survey and design were also provided.

1991-1993 **ENS Engineering Group**
Melbourne, Florida
Partner/Chief Engineer

Established an engineering and surveying business providing construction and mortgage surveying services along with civil and mechanical engineering design. Had eight employees, generating profits and revenue growth from inception.

1990-1991 **Atlantic Design & Construction, Inc.**
Rockledge, FL
Senior Project Manager

Responsibilities included total project management for design/build projects, bidding, obtaining permits, civil engineering design, and management of environmental issues. Projects ranged up to \$40 million.

1987-1990 **Law Engineering, Inc. (Division of Law Companies Group)**
Orlando, Florida
Project Manager

Responsibilities included management of asbestos abatement projects and coordination of Law Engineering's Petroleum Remediation for Florida. Asbestos management included developing scope and writing specifications, preparing contract documents and reports, along with managing bidding, scheduling, and field operations.

1985-1987 **Embree Construction Group, Inc.**
Orlando, FL
Division Manager

Total management of regional construction office covering 11 states with duties including directing all construction projects in the region, preparing budgets, annual planning, marketing, personnel management, and financial responsibility. Also acted as Project Manager on key projects.

Project Manager

Total project management of multiple at-risk commercial projects from bidding to procurement, subcontracting, scheduling, construction and punch-out.

1981-1985 **NL Baroid/NL Industries, Inc.**
Houston, TX
Project Manager

Provided total management of multiple design/build type projects including scope development, coordination of design team, cost control, negotiations, procurement, and construction phase management. Services also included material and systems inspections as well as technical support in the form of analysis and resolution of a diverse range of product and material failures.

Curriculum Vitae of Steve D. Hodge, P.E.
Principal, Applied Forensic Engineering, LLC
January 2019

**1980-1981 John Deere Foundry
East Moline, IL
Staff Engineer**

Responsible for permitting and compliance with all environmental regulations (air, water, solid waste, hazardous waste and PCB) and management of capital projects. Annual budget for environmental issues exceeded \$23MM.

EDUCATION

Bachelor of Science degree in Civil Engineering
South Dakota School of Mines & Technology, Rapid City, SD
(Major: Civil Engineering with emphasis in Geotechnical Engineering)

LICENSES AND CERTIFICATIONS

- Professional Engineer – Florida, (New York and Connecticut inactive)
- Certified Fire and Explosion Investigator
- Certified Building Contractor - Florida (Inactive)
- Florida Asbestos Consultant (Inactive)
- Certified English XL Slipmeter Tribometrist (expired)

AFFILIATIONS

- National Association of Fire Investigators – Member

CONTINUING EDUCATION

- National Fire, Arson, & Explosion Investigation Training Program
- English XL Slipmeter Certification Course
- Law School for Experts Seminar
- Contract Documents Preparation
- Contract Dispute Management
- Construction Claims
- Liability and Loss Prevention
- Project Management Fundamentals
- Project Portfolio Management
- Florida Building Code Primer
- Florida Advanced Building Code (x2)
- Structural Design for High Winds: Engineering Course for Non-Residential and Multi-Family Wood Buildings
- Life Safety Code (NFPA 101) Common Discrepancies
- Avoiding Design Blunders
- Causes of Distress and Deterioration in Concrete
- Metal Corrosion – Causes and Types
- What Engineers & Architects Need to Know about Finite Element Methods
- Florida Board's Laws and Rules for Professional Engineers (X8)
- Ethics Guidelines for Professional Conduct
- Ethics, Professionalism, and Disciplinary Actions
- Design of Storm Drainage for Parking Lots
- NIOSH 582 – “Sampling and Analysis of Airborne Asbestos Fibers”
- Management and Supervision of Asbestos Abatement Projects
- AHERA Asbestos Abatement Supervisor
- Asbestos Abatement: Facility Survey and Building Systems
- Asbestos Abatement: Management Planning
- Respiratory Protection for the Asbestos Abatement Industry
- Polarized Light Microscopy of Asbestos Containing Materials
- Critical Issues in Underground Storage Tank Management
- Leaking Underground Storage Tanks: Corrective Action Alternatives
- OSHA 40 Hour Health & Safety Training for Hazardous Waste Operations
- A Guide to Safe Scaffolding
- Innovative Solutions for Mass Timber Projects: Structural Concepts and Case Study Examples
- The Role of Control Layers in Building Enclosure Design
- Urban Acoustics
- Advancements in Force Transfer around Openings for Wood-Framed Shear Walls
- Multi-Family Design and Detailing: An Orlando Perspective on Mid-Rise Construction
- International Building Code Essentials for Wood Construction
- Capital Reserve Studies for Engineers and Architects
- Construction Trends