
EDUCATION

- 1996 **Bachelor of Science, Civil Engineering**
University of Central Florida, Orlando, Florida
- 1993 **Associate of Art**
Valencia Community College, Orlando, Florida
- 1982 **Associate of Applied Science**
Tri-Cities Technical Institute, Blountville, Tennessee

EXPERIENCE

- October 2000 **Engineering Design & Testing Corp.**
to Present **Charleston, South Carolina**

Consulting Engineer.
Specialized consulting in the area of structural engineering for commercial, industrial, and residential structures including cause and origin of collapsed structures, wind, flood, fire and settlement damage, construction losses, analysis of costs to repair or replace, evaluation and analysis of construction disputes.
- September 1996 **Bowen Engineering Corp.**
to October 2000 **Orlando, Florida**

Structural Engineer and Project Manager.
Performed conceptual and detailed structural design and detailed structural analysis for multimillion dollar commercial, educational, and residential projects.

REGISTRATIONS and CERTIFICATIONS

- Registered Professional Engineer in Alabama (#32056-E)
Registered Professional Engineer in Florida (#63362)
Registered Professional Engineer in Georgia (#PE028936)
Registered Professional Engineer in North Carolina (#030353)
Registered Professional Engineer in South Carolina (#21673)
Registered Professional Engineer in West Virginia (#018303)
Commercial Building Inspector, International Code Council Building Plans Examiner, International Code Council

CONTINUING EDUCATION

- 2020 *Investigating Internal Combustion Engine Failures*, EDT Seminar

 Analysis of Crossed-Linked Polyethylene, EDT Seminar

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- Concrete Roof Tiles: Installation Guidelines and Storm Damage Assessment*, EDT Seminar
- Subsurface Evaluation and Foundations*, EDT Seminar
- Part 1 – Rules of Professional Conduct-What the States Say*, EDT Seminar
- Part 2 – Rules of Professional Conduct-NOW What Do I Do?*, EDT Seminar
- 2019 *A Forensic Engineer's Guide to Geotechnical Field Analysis*, EDT Seminar
- No Tears Veneers – Keeping Water Out of Walls*, EDT Seminar
- Vibration Damage – Is It all it's cracked up to be?*, EDT Seminar
- 2018 *Design of Commercial – Industrial Guardrail Systems for Fall Protection*, PDHengineer.com
- Fire Retardant Treated Wood*, EDT Seminar
- Heat, Air, and Moisture Components of Building Envelopes*, EDT Seminar
- Introduction to Wood Connection Analysis*, EDT Seminar
- Introduction to World Class Machine Maintenance Methods*, PDHengineer.com
- OSHA Personal Protective Equipment*, PDHengineer.com
- Pressure Treated Wood*, EDT Seminar
- Preventative of Shoreline Erosion – Coastal Defense Schemes*, PDHengineer.com
- 2017 *Ballast Water Management: Background, Practice and Legislation*, EDT Seminar
- Engineering Analysis of Failure: Determination of Cause in a Legal Environment*, EDT Seminar
- Florida State Board of Engineers Rules, Laws and Ethics*, provided by Failure & Damage Analysis, Inc.
- MSE Retaining Walls – Design and Analysis*, EDT Seminar
- Technological Review of Unmanned Aerial Vehicles (UAVs) and Their Uses*, EDT Seminar
- 2016 *A Primer Regarding Blast Loads on Structures*, EDT Seminar
- BCD302 Prescriptive Residential Wood Deck Construction*, American Wood Council
- BCD420 International Building Code (IBC) Essentials for Wood Construction Based on the 2015 IBC*, American Wood Council
- Marine, Cargo and Stock Throughput Insurance*, EDT Seminar
- 2015 *Americans with Disability Act and Resulting Accessibility Standards*, EDT Seminar
- Earthquakes – Key Concepts to Aid in Damage Evaluation*, EDT Seminar
- Federal Rules of Civil Procedure (FRCP) Rule 26 – Expert Reports*, EDT Seminar
- Florida Laws and Rules for Engineers*, PDHLibrary.com
- Non-Invasive Structural Repairs and Retrofit – Utilization of Carbon Fiber Reinforced Polymers for Structural Enhancements*, EDT Seminar
- On Thin Ice – Building Failures During Winter*, EDT Seminar
- OSHA 10 Hour Construction Program [V14.1]*, RedVector.com
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- 2014 *Building a Storm-Resistant Safe Room*, CED Engineering.com
 Design of Commercial – Industrial Guardrail Systems for Fall Protection, Decatur Professional Development, LLC.
 Fall Protection in Construction, Decatur Professional Development, LLC.
 OSHA Fatal Facts: Fatalities Caused by Improper Work Practice, CED Engineering.com
 Silica Exposure in Sandblasting, Construction and Other Occupations, CED Engineering.com
 Vapor Barriers Under Concrete Slabs – How to Select and Locate, Decatur Professional Development, LLC.
- 2013 *Changes in the Wind Provisions of the ASCE 7 Standard*, EDT Seminar
 Filing Rules in a Judicial System, EDT Seminar
 Florida Laws and Rules for Engineers, PDHLibrary.com
 Prevention of Shoreline Erosion – Coastal Defense Schemes, PDHengineer.com
 Safety on the Job, EDT Seminar
 Social Networking and the Consulting Engineer, EDT Seminar
 Walkway Safety, EDT Seminar
- 2012 *Construction Defect Investigation (Presenter)*, EDT Seminar
 Estimating for Civil/Structural Engineers – All About the Process, EDT Seminar
 Hydrology – A Look at Storm water, Drainage and Flooding, EDT Seminar
 The Daubert Decision: Where Have We Come Since 1993?, EDT Seminar
 What Do Engineers and Architects Need to Know about the Americans with Disabilities Act?, PDH Center
- 2011 *Asphalt Composition Roof Coverings*, EDT Seminar
 Coastal Terminology and Geologic Environments, PDH Center
 Concrete Deterioration, PDH Center
 Earthquakes – Key Components to Aid in Damage Evaluation, EDT Seminar
 Engineering Ethics Seminar, EDT Seminar
 Residential Deck Construction, PDH Center
- 2010 *Florida Laws and Rules for Professional Engineers*, ActivEngineer.com
 Geological Engineering Basics for Non-Geotechnical Engineers, Decatur Professional Development, LLC.
 Tile Flooring Installation and Inspection, EDT Seminar
 Wood Decay vs. Termite Damage (Presenter), EDT Seminar
- 2009 *Alternate Means and Methods as Provided by the ICC (Presenter)*, EDT Seminar
 Florida Laws and Rules for Engineers, Decatur Professional Development, LLC.
 You Can Judge a Roof by Its Cover, EDT Seminar
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- 2008 *Bearing Capacity of Shallow Footings and Construction of Residential Buildings in Coastal Areas*, Decatur Professional Development, LLC.
Building Codes, Lorman Education Services
Damage Assessment – Electronic Theodolite Applications, EDT Seminar
Pedestrian Falls, EDT Seminar
Spontaneous Ignition and Pyrolysis, EDT Seminar
- 2007 *Concrete Petrography*, EDT Seminar
Lean on Me – Temporary Construction Bracing, EDT Seminar
Post Toasting – Post Fire Structural Surveys and Investigations, EDT Seminar
- 2006 *Hail Testing of Residential Roofing Materials*, EDT Seminar
Hurricane Damage Evaluation Procedures, EDT Seminar
Who is Fellenius and What Can He Tell Us About Unsuitable Soils, EDT Seminar
- 2005 *An Introduction to Infrared Thermography*, EDT Seminar
Avoiding Design Blunders, PDH Center
Legal Issues for South Carolina Professional Engineers, HalfMoon, LLC
Variations between the Florida Building Code and the International Building Code, EDT Seminar
Windows: Performance and Testing, EDT Seminar
- 2004 *Confined Space Entry Compliance*, training provided by the Safety and Health Council of North Carolina
NABIE Standards of Practice for Building Inspectors, PDH Center
Reinforced Modular Block Walls and Metal Roofing Systems, EDT Seminar
- 2003 *EIFS Panel Discussion*, EDT Seminar
Moisture in Residential Crawlspace, EDT Seminar
Mold Remediation in Schools, PACE
Overview of the Structural Provisions of the IBC
- 2002 *Examination and Evaluation of Wood Roofs and Wood Decay vs. Termite Damage (Presenter)*, EDT Seminar
Fire Sample Handling, EDT Seminar
- 2001 *Characteristics of Roofing Systems*, EDT Seminar
- 1999 *DPIC's Professional Liability Education Program: Liability IQ for Architects and Engineers*
Light Gauge Steel Engineers Association's Cold Formed Steel Design Seminar on the design and analysis of Light Gauge Metal Framing in commercial and residential projects
PROBOLT, Structural Tie-down System, Mid-Florida Chapter of Building Officials, (Presenter of technical data for the program)
- 1997 *ACI seminar on Tilt-up Construction and Slabs on Grade*. The seminar addressed the design and proper construction practices for Concrete Tilt-up Walls and Structural Slabs on Grade
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Florida Concrete and Products Association Masonry Construction and Inspection Certification Workshop. A two-day seminar on the design, installation, and inspection of masonry walls. Certified as Structural Masonry Inspector (expired 9/20/99)

1996 *Concrete Mix Selection and Proper Placement*, Florida Concrete and Products Association Seminar