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## **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**

- 2019    *A Forensic Engineer's Guide to Geotechnical Field Analysis*, EDT  
          *No Tears Veneers – Keeping Water Out of Walls*, EDT  
          *Vibration Damage – Is It all it's cracked up to be?*, EDT

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- 2018     *Design of Commercial – Industrial Guardrail Systems for Fall Protection*, PDHengineer.com  
          *Fire Retardant Treated Wood*, EDT  
          *Heat, Air, and Moisture Components of Building Envelopes*, EDT  
          *Introduction to Wood Connection Analysis*, EDT  
          *Introduction to World Class Machine Maintenance Methods*, PDHengineer.com  
          *OSHA Personal Protective Equipment*, PDHengineer.com  
          *Pressure Treated Wood*, EDT  
          *Preventative of Shoreline Erosion – Coastal Defense Schemes*, PDHengineer.com
- 2017     *Ballast Water Management: Background, Practice and Legislation*, EDT  
          *Engineering Analysis of Failure: Determination of Cause in a Legal Environment*, EDT  
          *Florida State Board of Engineers Rules, Laws and Ethics*, provided by Failure & Damage Analysis, Inc.  
          *MSE Retaining Walls – Design and Analysis*, EDT  
          *Technological Review of Unmanned Aerial Vehicles (UAVs) and Their Uses*, EDT
- 2016     *A Primer Regarding Blast Loads on Structures*, EDT  
          *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
- 2015     *Americans with Disability Act and Resulting Accessibility Standards*, EDT  
          *Earthquakes – Key Concepts to Aid in Damage Evaluation*, EDT  
          *Federal Rules of Civil Procedure (FRCP) Rule 26 – Expert Reports*, EDT  
          *Florida Laws and Rules for Engineers*, PDHLibrary.com  
          *Non-Invasive Structural Repairs and Retrofit – Utilization of Carbon Fiber Reinforced Polymers for Structural Enhancements*, EDT  
          *On Thin Ice – Building Failures During Winter*, EDT  
          *OSHA 10 Hour Construction Program [V14.1]*, RedVector.com
- 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  
          *Filing Rules in a Judicial System*, EDT
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- Florida Laws and Rules for Engineers*, PDHLibrary.com  
*Prevention of Shoreline Erosion – Coastal Defense Schemes*, PDHengineer.com  
*Safety on the Job*, EDT  
*Social Networking and the Consulting Engineer*, EDT  
*Walkway Safety*, EDT
- 2012    *Construction Defect Investigation (Presenter)*, EDT  
          *Estimating for Civil/Structural Engineers – All About the Process*, EDT  
          *Hydrology – A Look at Storm water, Drainage and Flooding*, EDT  
          *The Daubert Decision: Where Have We Come Since 1993?*, EDT  
          *What Do Engineers and Architects Need to Know about the Americans with Disabilities Act?*,  
          PDH Center
- 2011    *Asphalt Composition Roof Coverings*, EDT  
          *Coastal Terminology and Geologic Environments*, PDH Center  
          *Concrete Deterioration*, PDH Center  
          *Earthquakes – Key Components to Aid in Damage Evaluation*, EDT  
          *Engineering Ethics Seminar*, EDT  
          *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  
          *Wood Decay vs. Termite Damage (Presenter)*, EDT
- 2009    *Alternate Means and Methods as Provided by the ICC (Presenter)*, EDT  
          *Florida Laws and Rules for Engineers*, Decatur Professional Development, LLC.  
          *You Can Judge a Roof by Its Cover*, EDT
- 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  
          *Pedestrian Falls*, EDT  
          *Spontaneous Ignition and Pyrolysis*, EDT
- 2007    *Concrete Petrography*, EDT  
          *Lean on Me – Temporary Construction Bracing*, EDT  
          *Post Toasting – Post Fire Structural Surveys and Investigations*, EDT
- 2006    *Hail Testing of Residential Roofing Materials*, EDT
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- Hurricane Damage Evaluation Procedures*, EDT
- Who is Fellenius and What Can He Tell Us About Unsuitable Soils*, EDT
- 2005 *An Introduction to Infrared Thermography*, EDT
- 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
- Windows: Performance and Testing*, EDT
- 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
- 2003 *EIFS Panel Discussion*, EDT
- Moisture in Residential Crawlspace*, EDT
- 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
- Fire Sample Handling*, EDT
- 2001 *Characteristics of Roofing Systems*, EDT
- 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
- 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
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