

Byron K. Anderson, P.E., S.I.



Experience:

Structural Engineering and Inspections, Inc., Lutz, Florida.

Owner / Professional Engineer / Special Inspector / Chief Executive Officer (March 2002 – Present).

Principal responsibilities include commercial, industrial, multi-family, and single family structural design. Structural forensic site investigation/repair/quality control. Special (threshold) inspections and shoring. Expert witness and peer review. Pile load and material testing. Management, human resources, and marketing. Specialties include, but are not limited to, pre-cast concrete, post tension, tilt-up concrete, shoring, sinkhole remediation, insurance claims, steel, wood, and soils.

Dansco Engineering, P.A., Apollo Beach, Florida.

Operations Manager/Structural Engineering Intern/AutoCAD Design Specialist (June 1989 - 2001).

Design Engineer specializing in both forensic repair and new construction for light commercial and residential projects. Client relations and project management. Threshold, forensic, and miscellaneous inspections. Management, human resources, and marketing. Specialties included concrete, steel, and wood.

University of South Florida, Tampa, Florida.

Adjunct Professor

- Data acquisition and system controls (Undergraduate course) (2001, 2002)
- Advanced Steel Design (Graduate course) (2008)

Education:

University of South Florida, Tampa, Florida.

Master of Science, Civil Engineering, in progress.

University of South Florida, Tampa, Florida.

Bachelor of Science, Civil Engineering, May 2000.

Polk Community College, Winter Haven, Florida.

Associates of Arts in Engineering, August 1995.

ITT Technical Institute, Tampa, Florida.

Associates of Science in Engineering Drafting, June 1990.

Professional Certificates:

- State of Florida Board of Professional Engineers:
 - Florida Professional Engineer, January 2004, License #60987, (Structures I Test).
 - Special (Threshold) Inspector, June 2007, License #7017423.
- Arkansas Professional Engineer, October 2007, License #13103.
- Louisiana Professional Engineer, October 2006, License #32723.
- Mississippi Professional Engineer, November 2006, License #17625.
- Tennessee Professional Engineer, June 2007, License #00111450.
- Virginia Professional Engineer, December 2007, License #0402043972.
- Alpine Engineered Product, Inc.: Truss Layout and Design Program, October 1995.
- Florida Green Building Coalition (FGBC) Certifying Agent, July 2008.
- ICC Certified Building Inspector, November 1991, License #5188731-B5.
- ICC Disaster Response Inspector, May 2008, License #5188731-DR.
- NCEES Record for multiple state professional engineering licensures.
- State of Florida Department of Community Affairs: Building Energy Rating System (BERS)/residential, public, and commercial building rater, August 1995.

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Professional Organizations:

- American Institute of Steel Construction, Inc. (AISC).
- American Society of Civil Engineers (ASCE).
- American Welding Society (AWS).
- Florida Association of Sinkhole Stabilization Specialists (FAS³).
- Florida Home Builders Association.
- Home Builders Association of Manatee County (HPA of Manatee).
- International Code Council (ICC).
- National Association of Home Builders (NAHB).
- Order of the Engineer.

Special / Signature Work*

- Commercial Structures:
 - Small to medium size structures utilizing various types of construction material and techniques.
- Condominiums:
 - Conducted forensic inspections and reports related to corrosion damage in multi-story post-tensioned concrete residential complex.
- Existing Structure High Wind Event Mitigation:
 - Inspections and design of retrofit systems to mitigate wind damage on existing structures.
- Hurricane Reconstruction:
 - Involved in forensic inspection, analysis and repair of hundreds of buildings damaged in Hurricane Andrew, Charlie, and Francis.
- Multi-Story Post Tension Complex:
 - Conducted threshold inspections, concrete testing, post-tension placement and elongation inspections.
- Pre-cast Manufacture Structural Consulting:
 - Design and inspect pre-cast wall panels.
 - Testing of pre-cast concrete beams.
- Regional Service Center:
 - Conducted threshold inspections at large scale commercial facility.
- Residential Structures:
 - Single and multi family residential structures ranging in value of up to \$5+m.
- Shoring and Form Work:
 - Design and inspection of shoring and form work systems.
- Sinkhole Repairs:
 - Inspections and structural remediation related to structural damage caused by sinkhole activity.
- Threshold Inspection on both public and private B structures.
- Expert Witness History:
 - Construction dispute, sinkhole damaged residence, Orlando, Florida:
 - Witness for plaintiff
 - Mediation
 - Insurance dispute, sinkhole claim, Bushnell, Florida:
 - Witness for defense (insurance company)
 - Deposition
 - Developer dispute, collateral structural damage to adjacent properties, Lakeland, Florida:
 - Witness for defense
 - Ongoing

*Work done throughout engineering career which is not limited to time at SEI.



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Byron has always prided himself on being a builder's engineer. He is constantly refining new design approaches and expanding his abilities in the structural engineer field. Recent seminars include:

- AISC – Seismic design requirements
- PTI – Post tension design

Publications:

- “Factors Affecting Anomaly Formation in Drilled Shafts”
Co-author of a research report presented to the Florida Department of Transportation, Tampa, Florida 2005.

Teaching Experience:

University of South Florida, Tampa, FL

Adjunct Instructor – “*Advanced Steel Design*” Spring 2008

TA Instructor – “Data acquisition and system controls – Lab,” 2001 - 2002

Research

University of South Florida, Tampa, FL

Research Assistant. (2000 – 2002)

Research related to data acquisition for structural and geotechnical testing, deep foundation integrity, and heat generation of mass concrete.