



YEARS WITH FIRM: 11  
YEARS IN INDUSTRY: 45

#### EDUCATION

Mansfield University of Pennsylvania |  
Mansfield, PA

2005 Bachelor of Science,  
Applied Mathematics and Physics

NC State University | Raleigh, NC

2009 Master of Science, Civil Engineering:  
Structures and Mechanics

#### PREVIOUS EXPERIENCE

Graduate Research Assistant, NCSU,  
January 2007 — 2009

Engineering Assistant, NCDOT, 2006

Transportation Construction Inspector:  
Level III, NYDOT, 2005

#### REGISTRATIONS

Professional Engineer: NC #044980, SC #34000, FL #82984, NY #82984

IIBEC: Registered Exterior Wall Consultant (REWC®) #

IIBEC: Registered Roof Observer (RRO®) #

#### PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE) - ASCE Forensic Engineering Division  
Committee Member

National Society of Professional Engineers (NSPE)

American Concrete Institute (ACI)

American Wood Council (AWC)

International Institute of Building Enclosure Consultants (IIBEC)

Structural Engineering Association of South Carolina (SEA of SC) - Greenville  
Chapter Past President 2018 — 2019

#### PRINCIPAL AREAS OF PRACTICE

- Deficient Construction
- Structural Analysis
- Collapse + Damage Investigation

John has over ten (10) years of experience as an engineering consultant and engineering intern, primarily in the areas of deficient construction, structural analysis and collapse/damage investigations. He is licensed as a Professional Engineer in four (4) states and is a Registered Exterior Wall Consultant and registered Roof Observer with the International Institute of Building Enclosure Consultants. John is responsible for the inspection and structural analysis of a wide variety of building enclosure + framing systems that include roof, wall and guardrail systems. He has provided deposition testimony during a litigation case, and has presented several technical papers at national +regional conferences.

## DEFICIENT CONSTRUCTION

- Investigation of building enclosure + structural issues of residential structures | multiple locations in SC and NC
- Investigation of building enclosure issues of residential structures | multiple locations in SC
- Investigation and assessment of building enclosure + structural issues of residential structures | SC
- Investigation of building enclosure + wood truss roof system of residential structures | multiple locations in SC
- Investigation and assessment of building envelope and structural issues of residential structure | SC
- Investigation + assessment of structures issues of residential structures | GA
- Investigation of structural issues for residential structures | SC
- Investigation + assessment of exterior cladding of residential structure | SC

## STRUCTURAL ANALYSIS

- Investigation + assessment of residential above-ground pool caused by wind event | GA
- Investigation + assessment of residential masonry chimney | multiple locations in GA
- Investigation + assessment of retaining wall collapse | multiple locations in SC
- Investigation of wood truss roof system | SC
- Investigation + assessment of residential siding attachment | NC
- Investigation and assessment of aluminum framed enclosure of single family residence | SC
- Assessment of multi-family condominium handrail attachment | SC
- Investigation and assessment of autoclaved aerated concrete block foundation + exterior walls of single family residence | NC
- Investigation + assessment of residential structural framing issues | NC
- Investigation + assessment of building enclosure + structural issues for residential structures | multiple locations in SC
- Investigation + assessment of pre-engineered metal building including standing seam metal roof, steel bar joint, steel girders and steel columns | SC
- Investigation + assessment of structural wood pile foundation of residential structures | SC
- Design of wood framed gazebo | SC
- Investigation + assessment of light-gauge metal exterior framing of condominium high-rise and mid-rise residential structures | multiple locations in SC
- Design of light-gauge metal framed marina dock, LA

## COLLAPSE + DAMAGE INVESTIGATION

- Investigation of structural damage to residence caused by tree impact | multiple locations in SC

COLLAPSE + DAMAGE INVESTIGATION CONTINUED

- Investigation of structural damage to residence caused by earthquake | SC
- Investigation of structural damage to residence caused by vehicle impact | TN
- Investigation of structural damage to residence caused by wind event | TN
- Investigation of damage to boat dock caused by wind event | GA
- Investigation of residential roof system caused by wind + hail event | GA
- Investigation of wood truss roof system deteriorated due to Fire Retardant Treatment (FRT) | SC
- Investigation and assessment of residential modular roof system failure | SC
- Investigation of collapse of a large-scale commercial SPF roof structure | SC
- Investigation of in-ground swimming pool surface cracking at residence | SC
- Investigation of low-slope rubber paver issues at commercial roof | SC
- Investigation of structural steel television tower collapse | SC
- Investigation of damage to residences caused by vibration events | SC
- Investigation of damage to residences caused by blasting events | SC
- Investigation of reinforced concrete slab-on-grade airplane taxi area | SC
- Investigation of light-gauge metal roofing truss collapse | SC
- Investigation of structure damage caused by termites at residence | SC
- Investigation of low-slope roof collapse of commercial building | SC
- Investigation of damage to boat docks caused by wind and/or wave events | multiple locations, SC
- Investigation of residential structure damaged by fire | SC
- Investigation of hotel structure damaged by fire | SC

## PRESENTATIONS + PUBLICATIONS

- Author: Wylie, J.: **“Anatomy of Construction Litigation, Part 1 - Identification of Defects”**, IIBEC Interface Article. August 2019.
- Author: Wylie, J.: **“Evaluating The Adequacy of Siding Attachment”**, IIBEC Interface Article, July 2019
- Presenter: Wylie, J.: **“Why Window Why? Water Testing Problems and Solutions”**, IIBEC Charleston Meeting, Charleston, SC. April, 2019.
- Presenter: Wylie, J.: **“Best Practices for Structural Engineering”, CSE Seminar Dealing with the Challenges of Mid-Rise Wood Frame Construction**, Clemson, SC. July 2017; Atlanta, GA. August 2017; Raleigh, NC. November 2017.

## PRESENTATIONS + PUBLICATIONS

- Presenter: Wylie, J.: **“Dealing with the Challenges of Mid-Rise Wood Frame Construction”**, Mid-Atlantic Chapter IIBEC (RCI) Seminar. Jessup, MD. October 2017.
- Presenter: Wylie, J.: **“Lessons Learned During Sliding Glass Door Replacement and Concrete Balcony Repairs in a Hurricane Coastline”**, 31th IIBEC (RCI) International Convention and Trade Show, Orlando, FL, March 2016
- Presenter: Wylie, J.: **“Tale of Two Stones”**, The 12<sup>th</sup> North American Masonry Conference. Denver, CO. May 2015. American Society of Civil Engineers (ASCE) Forensic Engineering 7<sup>th</sup> Congress Conference. Miami, FL. November 2015.
- Presenter: Wylie, J.: **“A Building’s First Line of Defense: The Exterior Cladding”**, CSE Load Path Seminar. Clemson, SC. November 2015.
- Presenter: Wylie, J.: **“Case Study on Code Shortcomings Regarding Stone Veneer Requirements”**, 2015 WCA Spring Conference. Mount Pleasant, SC. March 2015.
- Presenter: Wylie, J.: **“Siding Attachment: Facts + Fantasies”**, CSE Understanding Building Envelope Failures. Clemson, SC. June 2013. 28<sup>th</sup> IIBEC (RCI) International Convention and Trade Show. Anaheim, CA. March 2014.
- Author: Wylie, J.: **“Experimental Testing of Unreinforced Masonry Walls Strengthened with Orthogonal Near-Surface Mounted CFRP Subject to Out-of-Plane Loading”**, a thesis submitted to the Graduate Faculty of North Carolina State University. 2009.