

Nathaniel Haney, PE | Senior Forensic Engineer

Arden, NC

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Professional Summary:

Mr. Haney is a licensed Civil Engineer specializing in forensic engineering. Some areas that his expertise within forensic engineering extends to are roofing assessments, retaining wall assessments, foundation and foundation system assessments, building envelope consulting, and structural evaluations for commercial and residential structures. From weather-related damage and construction defects to incidents such as fires, vehicle impacts, and flooding, he has extensive expertise in identifying root causes and delivering clear opinions and solutions.

His early background includes roles in forensic engineering, commercial construction inspections, and residential construction, providing a well-rounded foundation for understanding complex systems within the built environment. This experience, combined with his in-depth knowledge of forensic evaluations, enables him to accurately assess a wide range of building conditions, from routine wear and tear to complex failures related to extreme events like hurricanes, tornadoes, land/mudslides, and explosions.

Licenses and Certifications:

Professional Engineer (Additional states available upon application):

North Carolina, 051525

Tennessee, 124855

South Carolina, License #38950

Virginia, 64334

Georgia, PE048435

Florida, 94089

Texas, 145904

Louisiana, PE.0047174

Alabama, 51763

Colorado, PE.0063783

Washington, 25035512

Oregon, 108598PE

Arizona, 82053

Kentucky, 42011

National Engineering Registration, NCEES, 14-197-08

FAA Part 107 sUAS Remote Pilot Certificate

Cal OES Safety Assessment Program Evaluator

Haag Certified Inspector – Residential Roofs, Haag Education

Haag Certified Inspector – Commercial Roofs, Haag Education

EFI Global/Vale - Advanced Roof Specialist

Project Experience:

The sample projects here outline a small sampling of the types of projects and losses Mr. Haney regularly investigates. For further information or additional examples, please contact EFI Global.

Confidential Client, Belmont, NC

Evaluation of tornado damage to college campus

Evaluated exterior claddings, fenestrations, and roof coverings of twenty-six (26) separate structures on a college campus for damage due to high winds during an EF-1 tornado.

Confidential Client, Hickory, NC

Evaluation of vehicle impact related damage to a medical facility

Evaluated exterior, interior, and roof components of a medical facility that had been impacted by a vehicle traveling at a high rate of speed. Determined proper structural repair protocols and order of operations moving forward for the facility to re-open the damaged wing in a timely manner.

Confidential Client, Fort Myers Beach, FL

Evaluation of storm damage to a multi-building condominium complex

Evaluated fenestrations and roof coverings of nine (9) three-story condominium structures and assorted adjacent structures for damage due to high winds during Hurricane Ian.

Confidential Client, Gulf Shores, AL

Evaluation of storm damage to a multi-building high-rise condominium complex

Evaluated fenestrations and roof coverings of four (4) twenty-story high rise condominium structures and assorted adjacent structures for damage due to high winds during Hurricane Sally.

ECS Limited, Asheville, NC

Construction of NCSSM Campus in Morganton, NC

This project involved the complete construction of three (3) new structures, the renovation of four (4) structures, and the installation of a new elevated water storage tank for the School of Science and Mathematics. Various aspects of this project included reinforced concrete, earthwork, structural steel, structural masonry, deep foundations (H-Piles), EIFS, and fireproofing.

Tierra Inc., Tampa, FL

Forensic Evaluation of potential settlement/collapse due to sinkhole

This project involved the forensic evaluation of a structure in Dunedin, FL that was directly adjacent to a house that had recently been destroyed by a sinkhole. This evaluation involved subsurface exploration via hand augers and ground penetrating radar and an evaluation of structure for any relevant damage.

Professional Experience:

EFI Global, Senior Forensic Engineer, 2021-Present
ECS Limited, Project Manager, 2019-2021
Lightning Restoration, General Manager, 2016-2019
Tierra Inc, Forensic Structural Engineer Intern, 2013-2016
Quality Environmental Services, Field tech & Supervisor, 2008-2013

Formal Education:

Bachelor of Science, Civil Engineering, Ohio University, Athens, Ohio, 2013

Specialized Education:

Wind Design for Low-Slope Roofs – Part 1, IIBEC, 2026
Roofing Technology and Science II, IIBEC, 2025
EFI/Vale - Advanced Roof Specialist certification course, Vale Training, 2025
Haag Certified Inspector – Commercial Roofs, Haag Education, 2025
Roofing Technology and Science I, IIBEC, 2025
Reroofing, IIBEC, 2024
CalOES Safety Assessment Program, NCSEA, 2024
Haag Certified Inspector – Residential Roofs, Haag Education, 2024
Proper Design and Application of Advanced Composites for Strengthening Structures, FYFE, 2022
Rope Access Training – Level 1 “Authorized Person”, Reality Rope Access, LLC, 2021

Affiliations:

American Society of Civil Engineers (ASCE)
National Council of Structural Engineers Associations (NCSEA)
Fenestration and Glazing Industry Alliance (FGIA)
International Institute of Building Envelope Consultants (IIBEC)