



HALLIWELL

JOSHUA BESTE, P.E.

FORENSIC ENGINEER,
CIVIL/STRUCTURAL ENGINEERING SERVICES
CHARLOTTE, NC

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SPECIALTIES

- Structural Forensic Evaluations: Fire, Wind, Storm Surge, Collapse
- Steep-slope Roof System Damage Analyses / Restoration
- Commercial and Low-slope Roof System Damage Analyses / Restoration
- Water Intrusion Cause and Origin Evaluations
- Storm Damage Evaluations: Snow, Hail, Water, Wind
- Construction Defect Evaluations
- Retaining Wall / Foundation Failure Evaluations
- Building Envelope Failure Evaluations
- Expert Witness and Litigation Support
- Scope of Damage Analyses and Conceptual Repair Recommendations
- Vehicle Impact / Tree Impact
- Structural Design
- Temporary Structures / Live Entertainment Temporary Stage Structures
- Evaluation of Steel, Concrete, Masonry, and Wood-Framed Structures

BIOGRAPHY

Joshua has more than nine years of combined experience in structural design, construction, and forensic investigations. He specializes in investigations of commercial, residential, and site structures relating to the cause, extent, and reparability of damage including evaluation of water intrusion, wind damage, hail damage, flood damage, fire damage, impact damage, structural failures and collapses, and foundation damage.

Joshua has performed forensic engineering assessments involving structural damage; retaining wall failures; water intrusion evaluations; flood damage; and wind and hail damage assessments to building envelopes and roof systems. He handles major commercial and multi-family residential losses and has consulted on large complex insurance losses, including churches, warehouse buildings, manufacturing facilities, industrial facilities, and condominium complexes.

Prior to forensics, Joshua worked as a structural design engineer performing site inspections and peer reviewing engineering documentation for temporary structures in the entertainment industry; designing and compiling construction documentation for parking garages, steel, and timber structures; and reviewing construction phase submittals and requests for information (RFI's) for parking garage construction. He also oversaw modern building envelope construction during his time working for a general contractor.

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QUALIFICATIONS

MS, Civil Engineering, emphasis in Structural Engineering, Clemson University

BS, Civil Engineering, emphasis in Structural Engineering, Clemson University

INDUSTRY TRAINING, CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed PE: AL, AR, FL, KS, KY, LA, MD, MS, MO, NC, OH, OK, SC, TN, TX, VA, WV
- Structural Engineers Association of North Carolina (SEA of NC), member
- FAA Remote Pilot
- Aerial Work Platform Operator Training
- OSHA 10 HR Construction Safety and Health Course

PROFESSIONAL EXPERIENCE

- Halliwell, Forensic Engineer
- J.S. Held, Professional Engineer
- J.S. Held, Project Engineer
- Kimley-Horn and Associates, Inc., Structural Analyst
- Cranston Engineering Group, P.C., Intern
- B.L. Harbert International, LLC, Co-op

REPRESENTATIVE ASSIGNMENTS

Storm Damage

Wind Damage Assessment | London, KY

Evaluated extent of wind-related damage to an apartment complex consisting of 10 multi-family apartment buildings.

Tornado Damage Assessment | Hermitage, TN

Performed engineering investigation of reported tornado damage to eight multi-story apartment buildings and two miscellaneous buildings for structural damage following an EF-1 tornado, captured drone photography of the complex.

Damage Assessment | Leland, NC

Performed engineering investigation of reported wind damage to asphalt shingle roofs and building envelopes of 34 townhomes across 24 buildings.

Structural Damage / Building Envelope

Damage Assessment | Clarkton, NC

Evaluated cause and extent of structural damage to floor framing that reportedly had depressed downward following a water leak event at the property.

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Building Envelope Inspection | Laurinburg, NC

Performed engineering investigation of reported storm damage and water intrusion to the building envelope of a 117,000-square-foot hospital building.

Fire Damage

Damage Assessment | Charlotte, NC

Performed engineering investigation of reported fire damage to a wood-framed animal hospital.

Evaluations with Litigation Support

Signal Ridge Owners Assoc. v Landmark American Insurance Co. et. Al. | Rockwall, TX

Evaluated extent of wind and hail-related damage to a condominium complex consisting of 24 multi-family condominium buildings and three miscellaneous buildings and provided litigation support.

Seaside Beach and Raquet Club V James River Ins | Orange Beach, AL

Evaluated extent of wind-related damage from Hurricane Sally and hail-related damage from a separate hail event to a condominium complex consisting of three adjoining, nine-story high-rise condominium buildings, two low-rise villa buildings, and two miscellaneous buildings, and provided litigation support.

Design / Construction

Mixed-Use Parking Deck | Fayetteville, NC

Designed cast-in-place, post-tensioned parking deck and responded to Requests for Information (RFIs)/Submittals through the construction phase for a five-level parking deck.

Various Locations

Inspected construction of temporary stages/structures at more than 30 festivals or tour stops to identify deficiencies during construction; coordinated with the Engineer of Record, contractor, and/or client for corrective action.

Mall Retail Space Renovation | Fort Lauderdale, FL

Analyzed existing 15,000-square-foot retail space located on the second level for increased floor load, proposed retrofit solutions, and drafted an engineering report.

Timber Boardwalk | Tampa, FL

Designed 1,000-square-foot timber boardwalk structure.

Aviation Manufacturing Facility | Asheville, NC

Monitored and documented construction progress; managed project submittals for 175,000-square-foot manufacturing facility.

University School of Business Building | Columbia, SC

Monitored and documented construction progress; updated drawings to capture changes from RFIs and submittals.