

## Sherman D. (Dan) Vines, PE | Sr. Forensic Engineer

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### Professional Summary:

Mr. Vines has over 30 years of experience in the structural design and evaluation of commercial, industrial, institutional, and residential buildings. Experience includes the design of new buildings as well as renovations to existing structures. Mr. Vines has provided structural assessment of existing buildings for renovations, including the suitability of existing structural systems for reuse and repairs for damages due to accidents or natural events. Mr. Vines also has experience in evaluating existing commercial and industrial buildings as part of due-diligence for real estate transactions.

As part of EFI's Building Enclosure Group, Mr. Vines has extensive experience in the investigation of storm-related damage and construction defects to building envelopes and their components including fenestrations and roof coverings in both residential and commercial buildings.

### Licenses and Certifications:

Professional Engineer, Georgia, License #PE27120  
Structural Engineer, Georgia, License #SE000363  
Professional Engineer, Alabama, License #37604-E  
Professional Engineer, Indiana, License #PE10606278  
Professional Engineer, South Carolina, License #24905  
Professional Engineer, Tennessee, License #110641  
Professional Engineer, Florida, License #85945  
Professional Engineer, Texas, License #139305  
Professional Engineer, Louisiana, License #PE45021  
Professional Engineer, North Carolina, License #052913  
Professional Engineer, Virginia, License #64949  
Professional Engineer, Maryland, License #59131  
Professional Engineer, Kentucky, License #37588  
Professional Engineer, Colorado, License #0063792  
FAA Part 107 sUAS Remote Pilot Certificate

### Project Experience:

#### **Confidential Client, Fort Myers Beach, FL**

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

Evaluated fenestrations and roof coverings of two fourteen-story condominium towers and assorted adjacent structures for damage due to high winds during Hurricane Ian.

#### **Confidential Client, Pensacola Beach, FL**

##### **Evaluation of storm damage to a multi-building mid-rise condominium complex**

Evaluated fenestrations and exterior cladding of two eight-story condominium towers for damage due to high winds during Hurricane Sally.

#### **Confidential Client, Atlanta, GA**

##### **Evaluation of storm damage to a multi-building condominium complex**

Evaluated 25 individual building roofs for reported damage due to wind and hail.

**Confidential Client, Peachtree Corners, GA**  
**Evaluation of settlement of parking structure**

Determined cause and impact of differential settlement of newly constructed precast concrete parking structure.

**Confidential Client, Augusta, GA**  
**Evaluation of commercial building roof**

Determined cause of water infiltration into a commercial retail space due to improperly installed roofing materials.

**Pinewood Atlanta Studios, Fayetteville, GA**  
**Structural Design – new construction**

Structural project lead for all buildings on film production studio lot, including 18 sound stages ranging in size from 15,000 to 40,000 square feet. Structures on the lot also include 2 and 3 story office buildings as well as workshops and warehouses. Construction types at the site vary from conventional structural steel frame, tilt-up concrete wall panels, cold-formed steel framing, and pre-engineered metal buildings.

**Alliance Academy for Innovation of Cumming, Cumming, GA**  
**Structural Design – new construction**

Structural design of new, 3-story high school totaling 188,000 sq. ft. The construction of this building was a structural steel frame with composite steel floor framing and reinforced masonry shearwalls. The design also included site and building retaining and foundation walls of cast-inplace concrete.

**Griffin Region College and Career Academy, Griffin, GA**  
**Structural Design – renovation**

This project consisted of renovations to an existing, 2-story, 48,000 square foot building originally constructed as a high school in the 1920s. Design included removal of approximately 900 sq. ft. of the 2<sup>nd</sup> floor to accommodate a new atrium which required the addition of a new structural steel frame to brace the adjacent exterior wall.

**The Marshall House, Savannah, GA**  
**Due-Diligence Investigation**

Structural review and site investigation of 4-story historic hotel (built in 1851) as part of due diligence for a real estate transaction. Investigation included assessment of existing structural framing.

**Court Qualifications/ Depositions:**

Litigation CV available upon request

**Professional Experience:**

EFI Global / Unified Investigations and Sciences, Forensic Structural Engineer, March 2018 – Present

Willett Engineering Company, Inc., Senior Engineer, January 1999 – March 2018

Mowe Inc., Engineering Intern, August 1998 – December 1998

Heery International, Staff Engineer, June 1998 – August 1998

Starzer & Ritchie, Staff Engineer, April 1996 – June 1998  
Law Engineering, Engineering/Lab Co-op, January 1993 – September 1995

### Specialized Education:

Insulated Glass Fabricator Workshop, Fenestration and Glazing Alliance, 2021  
What Structural Engineers Should Know About Historic Masonry, SEAoG, 2021  
Case Studies for Forensic Water Testing, IIBEC, 2021  
Air and Water Infiltration Testing of Building Enclosures, IIBEC, 2021  
Asbestos in Buildings: Class III – Work Practices for O&M Personnel, Triangle Environmental Consultants, Inc., 2019, refresher course, 2020  
Professional Building Consulting, IIBEC, 2020  
Investigation and Repair of Wood Structures, ASCE, 2019  
Haag Certified Inspector – Commercial Roofs, Haag Education, 2019  
Haag Certified Inspector – Residential Roofs, Haag Education, 2019  
Roofing Technology and Science I, RCI (IIBEC), 2018  
AISC Night School 13 – Design of Industrial Buildings, American Institute of Steel Construction (AISC), 2017  
Welded Connections: The Good, The Bad, and The Ugly, National Council of Structural Engineers Associations (NCSEA), 2016  
History of AISC Specification for Structural Steel Buildings, AISC, 2016  
Laser Scanning: Practical Uses and Deliverables, Travis Pruitt & Associates, 2016  
AISC Night School 8 – Design of Composite Floor Systems, 2015  
2015 IBC Significant Changes – NCSEA, 2015  
Deterioration of Concrete, EZ-pdh.com, 2014  
Structural Strengthening of Concrete Structures, STRUCTURAL, 2013  
Preventing Concrete Moisture and Failed Flooring, Barrier One, Inc., 2012  
Cold Formed Steel Construction, Simpson Strong-Tie, 2012  
Evaluation and Modification of Open Web Steel Joists and Joist Girders, NCSEA, 2011  
Building Information Modeling, Structural Engineers Association of Georgia (SEAoG), 2008

### Education:

Bachelor of Civil Engineering, Georgia Institute of Technology, Atlanta, GA, 1996

### Courses Instructed:

Windows and Doors – Sorting Out the Issues – Southern Loss Association, July 2021  
Construction Defects – Indoor Air Quality Institute, Atlanta Chapter, August 2019

### Affiliations:

Fenestration and Glazing Industry Alliance (FGIA)  
International Institute of Building Envelope Consultants (IIBEC)  
Structural Engineers Association of Georgia (SEAoG)  
American Society of Civil Engineers (ASCE)  
American Institute of Steel Construction (AISC)  
Haag Certified Roof Inspector – Residential, ID# 201904525  
Haag Certified Roof Inspector – Commercial, ID# 201904525