

## Sherman D. “Dan” Vines, PE | Senior Forensic Engineer

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### Professional Summary:

Mr. Vines brings over 30 years of expertise in the structural design and evaluation of a wide range of building types, including commercial, industrial, institutional, and residential structures. His work spans the design of new buildings and the renovation and repair of existing ones. He has conducted structural assessments of existing buildings to determine their suitability for reuse, as well as the design of repairs for damage caused by accidents or natural events, and retrofits to accommodate new uses and loading requirements. Additionally, he has evaluated commercial and industrial buildings as part of due diligence processes for real estate transactions. Mr. Vines also has experience in the physical testing of building components for manufacturers.

In his role with EFI’s Building Enclosure Group, Mr. Vines specializes in investigating storm-related damage and construction defects in building envelopes and their components, including fenestrations and roof coverings, across both residential and commercial properties.

### 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 #PE.0063792
- Professional Engineer (Civil), California, License #C-96707
- FAA Part 107 sUAS Remote Pilot Certificate
- Cal OES Safety Assessment Program Evaluator
- Approved Instructor, Georgia Office of Commissioner of Insurance and Fire Safety

### Representative 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-in-place 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 and related building components and considered needs for both immediate and future inspections and repairs.

**Court Qualifications/ Depositions:**

Litigation CV available upon request.

### Professional Experience:

EFI Global / Unified Investigations and Sciences, Forensic Structural Engineer / Senior Forensic Engineer, March 2018 – Present  
SDVPE, LLC, Owner/Principal, August 2023 - 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:

Learning from Failures of Wood Structures, ASCE, 2023  
Lessons from Failures of Building Envelopes, ASCE, 2023  
Avoiding Ethical Pitfalls in Failure Investigations, ASCE, 2022  
CalOES Safety Assessment Program, NCSEA, 2022  
Rope Access Training – Level 1 “Authorized Person”, Reality Rope Access, LLC, 2021  
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  
AISC Night School 8 – Design of Composite Floor Systems, 2015  
Structural Strengthening of Concrete Structures, STRUCTURAL, 2013  
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)