

Randall A. Howard, P.E. – Curriculum Vitae



Howard Engineering & Associates, Inc.

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Summary of Professional Experience:

I have over 30 years of experience in the fields of structural design, construction, and forensic engineering pertaining to civil and structural matters. My career includes 6 years on the west coast of the United States and more than 24 years working in many of the south and southeast states. My expertise involves the determination of the cause, origin, and extent/severity of damage to buildings, including collapse, storm damage, foundation problems, fire damage, moisture source, and design/construction defects. I have extensive knowledge of residential and commercial building design and construction, and am familiar with most major building codes and industry standards or guidelines.

Areas of Expertise:

- Structural Analysis and Failure Evaluation, including building and roof collapses.
- Extent of Structural Damage and Scope of Repairs (e.g., hurricane/tornado, foundation settlement, sinkhole, vehicle impact, and fire).
- Construction Defects and Evaluation of Compliance with Building Codes and Industry Standards.
- Moisture Source Evaluations Related to the Building Enclosure (e.g., roofs, walls, windows, and doors), plumbing leaks, and surface flooding.
- Vibration Damage Analysis due to ground movement associated with earthquakes and construction/demolition activities.
- Expert Witness/Litigation support - appraisals, arbitrations, mediations, depositions, and courtroom testimony.

Education:

Bachelor of Science degree in Architectural Engineering (structural emphasis); graduated cum laude in 1987 from California Polytechnic State University, San Luis Obispo, California.

I have attended numerous industry-sponsored continuing education classes, seminars, and presentations.

Professional Employment/Training:

- Howard Engineering & Associates, Inc. – November 2013 to present
President/Principal Engineer (Structural/Civil) – Forensic Consultant
- SDII Global Corporation – August 2004 to November 2013
Senior Principal Engineer (Structural/Civil) – Forensic Structural/Civil Projects
- Haag Engineering Co. – November 1993 to August 2004
Staff and then Senior Engineer in the Houston Office from November 1993 to December 1996; opened Haag's Tampa Office in January 1997; served as Office Manager and Senior Engineer until August 2004
- The Austin Company – August 1991 to August 1993
Design and field engineer in Renton, Washington
- Leo A. Daly & Associates – August 1987 to August 1991
Design engineer in San Francisco, California

Representative Project Experience:

- Numerous residential and commercial evaluations of the cause, extent, and reparability of damage to buildings, including the investigation of damage due to natural events (e.g., wind, hail, trees), mechanical/intentional damage, and manufacturing or installation deficiencies.
- The Webber Building in Montgomery, Alabama: evaluation of the cause of the partial collapse of an historic brick masonry building undergoing extensive structural and architectural renovations.
- Port of New Orleans: documentation and evaluation of wind and flood damage to several port authority buildings due to Hurricane Katrina.
- Pine Crest Preparatory School in Boca Raton, Florida: evaluation of the cause and origin of structural damage that resulted in a catastrophic collapse of the roof; determination of potential responsibility for several identified design/construction deficiencies.
- Morrisons Restaurant (Picadilly Cafeteria) in Leesburg, Florida: evaluation of the cause of a partial roof collapse following extensive rainfall – roof ponding analysis of steel bar joist structure and evaluation of roofing installation.
- Southpoint Office Building in Maitland, Florida: evaluation of the cause and extent of damage to a multi-story office building; evaluation of potential responsibility for design/construction deficiencies that exacerbated the damage due to sinkhole activity.
- Jacksonville Electric Authority in Jacksonville, Florida: evaluation of the cause of collapse and complete destruction of a large aluminum storage dome during a strong wind event.

Professional Licensure

Alabama – P.E. No. 21432
Florida – P.E. No. 50893
Georgia – P.E. No. PE023111
Louisiana – P.E. No. 0027237
Mississippi – P.E. No. 13132
Texas – P.E. No. 80622
South Carolina – P.E. No. 17752
North Carolina – P.E. No. 022337
Virginia – P.E. No. 0402030995

HE&A's current corporate
certificates of authorization:
FL, GA, AL, LA, and SC

Professional Affiliations and Associations

National Society of Professional Engineers
American Society of Civil Engineers
Florida Engineering Society
International Code Council
Building Officials Association of Florida
Windstorm Insurance Network, Incorporated
American Wood Council
ASTM International; Member of Technical
Committee E58 on Forensic Engineering
Senior Member of the National Academy of
Forensic Engineers (NAFE), and a Board
Certified Diplomate in Forensic
Engineering by NAFE
Tau Beta Pi – The Engineering Honor Society
Phi Kappa Phi - Scholastic Honor Society

Publications:

Evaluating Structural Failure/Collapse – presented at, and included in the proceedings of, The Third International Conference on Forensic Engineering, Diagnosing Failures and Solving Problems, London, UK, 10-11 November, 2005.

Inspection and Evaluation of Structural Impairment – self-published paper with a summary of industry standards and guidelines for conducting an assessment and evaluation of structural impairment.

Selection and Management of Experts for Windstorm and Water Intrusion Claims – self-published paper on the role of expert witnesses and standards/guidelines for forensic engineering practice.