



Will Godfrey

PE, SE, MBA

Senior Managing Engineer

Department

Engineering Services

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Locations

Atlanta, GA

Biography

Mr. Will Godfrey is a Senior Managing Engineer where he provides initial response, condition assessment, and forensic evaluation of structures damaged by natural disasters, collapses, fires, building envelope failures, and other large and complex losses as part of YA Engineering Services.

Mr. Godfrey is a licensed Professional Engineer and Structural Engineer in more than 15 states. He has practiced internationally in Canada, China, the United Arab Emirates, and the United Kingdom. He is an expert in complex structural analysis, including nonlinear, time history, and response spectrum analyses, as well as failure analysis of post-loss structures affected by fires, floods, failures, and catastrophes, both natural and manufactured. He has focused on structural assessments and documentation for property damage following global natural disasters, as well as complex litigation and subrogation matters. Mr. Godfrey has authored papers regarding the computational expense and accuracy of co-linear seismic response combination methods as well as the impact of code modernization on building design and repair.

Credentials

- PE | Professional Engineer
- SE | Structural Engineer
- MBA | Masters in Business Administration
- FAACDP | FAA Certified Drone Pilot
- MSCEE | Masters of Civil and Environmental Engineering
- M Arch. | Masters of Architecture
- BS | Bachelor of Science - Architectural Studies

Representative Consulting Assignments

- Preferred Sands of Genoa Frac Sand Mine Post-Flood Damage Assessment | Genoa, NE | Structural condition assessment, structural analysis, concrete coring and testing, soil boring and testing, and as-built documentation of process buildings following a flood event at an active frac sand mine and processing facility | \$50M
- Hotel/Resort Properties Post-Hurricane Assessment | Baton Rouge, LA; Natchez, MS; New Orleans, LA; St. Thomas, USVI | Performed detailed structural condition and building envelope assessments of resort properties following Hurricanes Ida, Sally, Irma, and Maria | \$10M
- Port Authority Post-Hurricane Damage Assessment | St. Thomas, St. John, St. Croix, USVI | Mobilized rapidly post-disaster to assess and document the extent and severity of over 120 commercial, industrial, and residential properties located across the three US Virgin Islands following Hurricanes Irma and Maria | \$100M
- Pennsylvania Rapid Bridge Replacement Project Flooding Assessment | PA | Cause and origin investigation, on-site evaluation, condition documentation, and document review for 76 highway bridges located throughout the state of Pennsylvania | \$30M
- Residential High-Rise Post-Hurricane Assessment | Miramar Beach, FL |

- Performed detailed structural condition and building envelope assessments of residential high-rise properties following Hurricane Sally | \$10M
- Construction Defect, Confidential | Washington, DC | Detailed structural modeling and finite element analysis of non-redundant truss node for a large steel truss following discovery in the field of construction defect and fabrication deviations
 - FIU Pedestrian Bridge Collapse | Miami, FL | Structural analysis to determine the cause and origin of the collapse and developed conceptual repair/retrofit design options
 - Parking Garage Partial Collapse | Confidential, Emergency stabilization, shoring design, structural evaluation, deficiency documentation, root cause determination, retrofit design review, and retrofit installation observation following collapse of a 60,000- pound precast panel | \$5M

Professional Experience

- 2022 - Current | Senior Managing Engineer | YA Engineering Services
- 2021 - 2022 | Senior Project Engineer | Envista Forensics, LLC
- 2020 - 2021 | Senior Project Engineer | Nucor Corporation
- 2016 - 2020 | Project Manager | DeSimone Consulting Engineers
- 2013 - 2016 | Senior Associate | Sargent & Lundy, LLC
- 2011 - 2013 | Engineer | Fellows Structural Engineering
- 2009 - 2011 | Associate | Sargent & Lundy, LLC

Area of Practice

- Building Code Upgrade Review
- Building Envelope
- Condition Assessment
- Damage Assessment
- Failure Analysis
- Litigation Support
- Repair and Rehabilitation Design
- Seismic Evaluations and Retrofit Design
- Structural Analysis

Publications and Presentations

- "Case Study: Investigation of the Collapse of a Precast Façade Panel at an East Coast Resort", Structural Engineers Association of Illinois, Forensic Forum
- "Seismic Response Analysis and Design for Concrete Nuclear Structures: A Comparative Study of the Time History Method, Response Spectrum Method, and Equivalent Static Load Method", ASME PVP2016 Conference
- "Chicago Building Code Modernization: Comparison of Prototype Building Designs", International Journal on Tall Buildings and Urban Habitat, Co-Contributor for full research paper produced by the Chicago Chapter of the Council on Tall Buildings and Urban Habitat., Issue II

Education

- University of Chicago - Master of Business Administration - Business Administration - Chicago
- University of Illinois - Master of Science Civil & Environmental Engineering - Structural Engineering - Champaign
- University of Illinois - Master of Architecture - Architecture - Champaign

- University of Illinois - Bachelor of Science - Architectural Studies - Champaign

Affiliations

- ASCE
- AISC

Licenses

- 40246-E - Alabama - Professional Engineer
 - 91479 - Florida - Professional Engineer
 - SE001197 - Georgia - Structural Engineer
 - PE-19504 - Hawaii - Professional Engineer
 - 81.007832 - Illinois - Structural Engineer
 - PE11800144 - Indiana - Professional Engineer
 - P24841 - Iowa - Professional Engineer
 - PE.0046112 - Louisiana - Professional Engineer
 - 55700 - Minnesota - Professional Engineer
 - 32103 - Mississippi - Professional Engineer
 - 60467 - Montana - Professional Engineer
 - E-17375 - Nebraska - Professional Engineer (Structural)
 - 29262 - Nevada - Professional Engineer
 - PE 054721 - North Carolina - Professional Engineer
 - 83598 - Ohio - Professional Engineer
 - 39243 - South Carolina - Professional Engineer
 - 121080 - Tennessee - Professional Engineer
 - 146291 - Texas - Professional Engineer
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