Gerard J. Boyce | Forensic Mechanical/Structural Engineer, **P.E.**

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Professional Summary:

Mr. Boyce has over 33 years of diverse mechanical, structural, and civil engineering experience including failure analysis of automotive components, mechanical equipment, appliances, and plumbing components. Mr. Boyce is able to provide assessment of origin and cause of water intrusion, structural damage as a result of wind, storms, fire, water, vehicle/tree impact, settlement, or other damage/distress to retaining walls, residential, and commercial buildings. Experience includes evaluation of construction-related defects and structural repair recommendations.

Licenses and Certifications:

Registered Professional Engineer: Georgia, Registration No. PE022932

Registered Professional Engineer: Alabama, Registration No. 34106

Project Experience:

Confidential Client, Birmingham, Alabama
Evaluation of collision damage to large mechanical equipment cargo
Determined extent of damage to mechanical equipment due to collision and other damage not associated with collision

Confidential Client, Sylvester, Georgia
Evaluation of tornado damage to single family dwelling structure
Determined extent of tornado-related damage to structure including scope of required repairs

Confidential Client, Atlanta, Georgia
Evaluation of storm water detention structure and alleged sink hole
Determined cause of distress to concrete storm water detention structure and evaluated a sink hole as a possible cause

Confidential Client, Jackson, Georgia
Origin and cause evaluation of flooding of public educational facility
Determined cause of flooding of school facility during renovation of the property

Confidential Client, Atlanta, Georgia
Evaluation of fire sprinkler piping failure
Determined cause of wet fire sprinkler piping failure

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Confidential Client, Marietta, George
Origin and cause of unidentified water intrusion into church facility
Determined origin of water intrusion and identified cause

Confidential Client, Warner Robins, Georgia
Origin and cause evaluation of water intrusion and alleged storm damage to roof coverings
Evaluated representative sample of 300 housing units for cause of moisture damage in exterior mechanical closets. Identified multiple origins/causes of water intrusion and evaluated Roof damage as a potential cause of loss.

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global /Unified Investigations & Sciences, Inc., Forensic Mechanical/Structural Engineer, August 2013 to present
S&ME, Project Engineer, August 2007 to July 2013 (Part time/Consultant)
Georgia Engineering Services, Inc., Principle Engineer, March 2005 to July 2013
Cerny & Ivey Engineers, Inc., Staff Engineer, January 2003 to February 2005
Steel Span, Inc. Senior Staff Engineer, January 2001 to January 2003
Cerny & Ivey Engineers, Inc., Staff Engineer, September 1995 to January 2001
Base Manufacturing, Inc., Chief Engineer, April 1990 to August 1995
Cerny & Ivey Engineers, Inc., Senior Technician/Staff Engineer, December 1984 to March 1990
Skyland Chevron Service Station, Chief Automotive Mechanic, 1980 to 1982

Specialized Education:

Asbestos Operations and Maintenance, Triangle Environmental Consultants, Inc. 2019,
Connection Solutions for Wood Framed Structures, American Society of Civil Engineers, 2018
Biodeterioration of Wood, Process Engineering Consultants, 2018
An Intro to Laboratory Testing of Soils, Process Engineering Consultants, 2018
House Wrap, Process Engineering Consultants, 2018
Radar Rainfall Estimation for Modeling and Design, American Society of Civil Engineers, 2017
Seismic Design of Curtainwall Systems, American Society of Civil Engineers, 2017
Significant Changes to Wind Load Provisions of ASCE7-10 and Coordination with the IBC 2015 and IRC 2015, 2017, American Society of Civil Engineers, 2017
Engineering Use of Geotextiles, Process Engineering Consultants, 2017
Stability Analysis of Concrete Structures, Process Engineering Consultants, 2017
An Intro to Boiler Control Systems, Process Engineering Consultants, 2017
Ethical Issues in Forensic Engineering, Process Engineering Consultants, 2016
Introduction to Fire Suppression Systems Inspection, Testing, and Maintenance, Process Engineering Consultants, 2016
Preparation of Foundations for Structures, Process Engineering Consultants, 2016

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An Introduction to HVAC Systems, Process Engineering Consultants, 2016
New ACI Certification Process, American Concrete Institute, 2016
Structural Building Condition Surveys, American Society of Civil Engineers, 2015
Significant Changes to Wind Load Design, American Society of Civil Engineers, 2015
Procedures of ASCE7-2010, American Society of Civil Engineers, 2015
Hydrologic Trespass and Nuisance Considerations in Stormwater Management Design, American Society of Civil Engineers, 2015
Underpinning and Strengthening of Foundations, American Society of Civil Engineers, 2015
Construction Stormwater BMP's, American Society of Civil Engineers, 2015
Asphalt Shingle Roofing for High Wind Regions, Process Engineering Consultants, 2015
Recommended Practice for the Design of Residential Foundations, Process Engineering Consultants, 2015
Tornado Risks and Hazards in Southeast USA, Process Engineering Consultants, 2015
Corrosion Theory and Corrosion Protection, Process Engineering Consultants, 2015
Foundation Walls for Coastal Regions, Process Engineering Consultants, 2015
Mortar and Masonry Basics, American Concrete Institute, Georgia, 2015
Unified Investigations and Sciences, Inc., OSHA 29 CFR 1910.1200, Globally Harmonized System of Classification and Labeling of Chemicals, 2014
International Association of Arson Investigators (IAAI), CFITrainer.net, Fire Investigator Scene Safety, 2013
40 hour OSHA HAZWOPER, S&ME, 2011
10 hour OSHA Construction Safety and Health, S&ME, 2010
Aerial Man lift Operator Certificate, Sunbelt Rentals, 2009
Forklift Operator Certificate, Sunbelt Rentals, 2009

Education:

Bachelor of Mechanical Engineering Technology-Machine Design, with High Honor
Southern Polytechnic State University, Marietta, Georgia, 1984

Additional undergraduate studies in:
Electrical & Computer Technology 1986-87
Structural Analysis 1995

Affiliations:

Member of Tau Alpha Pi National Honor Society
Member of American Society of Civil Engineers
Member of Structural Engineers Association of Georgia
Haag Certified Roof Inspector – Residential, ID# 201406201
Haag Certified Roof Inspector – Commercial ID# 201406201

Courses Instructed/ Guest Lecturer:

Property Condition Assessments in Accordance with ASTM E2018, S&ME, April 2012

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Publications and Presentations:

Boyce, Gerard; Shiver, Christopher: “Building Products- Design & Certification Testing”, Mercer University ACEDC/GSPE Continuing Education Seminar, Oct. 2004

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