



Curriculum Vitae

MARTIN D. SHIELDS, MCE, PE, PA, LEED® AP-NC

Shields Engineering Group, Inc.
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Academic Background

- University of Florida, Gainesville, FL; BSCE in Civil Engineering, 1988.
- University of Florida, Gainesville, FL; MCE in Civil Engineering, 1990.

Professional Summary

Forensic, civil, and structural engineer with more than 35 years of experience in structural damage assessment, building envelope failures, hydrology, site development, and construction defect investigations. Extensive background serving as an expert witness, providing consultation, expert reports, depositions, and testimony for insurance claims, construction litigation, and code compliance matters. President and founder of both Shields Engineering Group, Inc. and ClaimsFi, Inc., combining deep technical engineering expertise with public adjusting and appraisal capabilities.

Core Expertise

- Forensic engineering and litigation support.
- Wind, hail, moisture, and building envelope damage investigations.
- Structural assessments of foundations, retaining walls, roofs, and framing systems.
- Hydrologic modeling, stormwater management, and site development engineering.
- Construction defect examinations and code compliance analysis.
- ADA compliance studies for site access, grading, parking, and circulation.
- Expert reports, affidavits, depositions, and courtroom testimony.
- Public adjusting, appraisals, and umpire services.

Expert Witness Experience

- Expert Reports Prepared: 500+
- Depositions: 60+
- Case Types: Insurance claims, construction defects, code compliance disputes, water intrusion, foundation failures, hail- and wind-related damage to commercial and residential buildings.

Professional Experience

SHIELDS ENGINEERING GROUP, INC.

Atlanta, Georgia (2009 to Present)

Mr. Shields is the founder and President of Shields Engineering Group.

Principal Forensic Engineer. Provides expert witness consultation and testimony; analyzes damage to structures, roofs, building envelopes, site retaining walls, and foundations; conducts wind and hail damage investigations; performs water intrusion investigations; reviews code compliance; and identifies construction deficiencies.

Principal Civil Engineer. Responsible for commercial, institutional, and residential site development, including site feasibility studies, environmental testing, subsurface geotechnical investigations, wetland delineation and permitting; design of stream mitigation and permitting; site work design such as layout, traffic studies, egress and ingress analysis for ADA compliance, grading, utilities, onsite water management facilities, drainage, stormwater management, hydrologic analysis and modeling, erosion and sedimentation control, post-construction stormwater management, and detailed plans; construction cost estimating; and construction administration management.

CLAIMSFi, INC.

Atlanta, Georgia (2021 to Present)

Mr. Shields is President of ClaimsFi, Inc.

Licensed Public Adjuster (PA). Provides public adjusting for both residential and commercial claims, construction cost estimating, appraisals, and umpire services.

ESTES SHIELDS ENGINEERING, INC.

Atlanta, Georgia (1999 to 2009)

Mr. Shields was the co-founder and President of Estes Shields Engineering.

Principal Forensic Engineer. Provided expert witness consultation and testimony; analyzed damage to structures, roofs, building envelopes, and foundations; conducted moisture intrusion investigations; performed code compliance reviews; and identified construction deficiencies.

Principal Civil Engineer. Developed multi-phase residential subdivisions, educational, and commercial facilities; designed site water distribution systems, sanitary sewer, and onsite waste management facilities; prepared street plans including geometric layouts, structural sections, traffic control, and drainage; conducted ingress and egress studies for ADA compliance; and designed and analyzed hydraulic structures, stream and channel improvements, detention basins, and retention ponds.

Principal Structural Engineer. Responsible for the design of wood, concrete, steel, and masonry structures; preparing structural plans, details, and specifications for residential and commercial buildings (low to mid-rise).

DAMES & MOORE/URS GROUP

Atlanta, Georgia (1990 to 2009)

For ten years, Mr. Shields worked as a Project Engineer, Project Manager, or Project Director on more than 250 environmental and civil engineering projects of various sizes.

Consulting Engineer. Project manager for subsurface investigations and design of environmental remediation systems for the cleanup of chemically impacted commercial sites; regulatory permitting; groundwater remediation; remedial investigations and feasibility studies; underground tank closures; environmental assessments; groundwater modeling; and aqueous geochemistry.

Civil Engineer. Specializing in foundation and geotechnical engineering, including ground improvement for civil projects; slurry wall construction for structural and hydraulic containment; foundation investigation and design for shallow and deep foundations—covering various shallow system types, mats, driven and expanded base piles, and drilled shafts; construction dewatering; and quality control of earthwork and foundation construction.

Professional LicensesProfessional Engineer (13 States)

Georgia, Professional Engineer (PE) No. 20686.

Alabama, PE No. 20944.

Colorado, PE No. 45561.

Florida, PE No. 73323.

Indiana, PE No. 11300327.

Illinois, PE No. 062-066930.

Kentucky, PE No. 28830.

Louisiana, PE No. 33525.

North Carolina, PE No. 26650.

Oklahoma, PE No. 27312.

South Carolina, PE No. 26834.

Tennessee, PE No. 107114.

Texas, PE No. 109063.

Public Adjuster Licenses (3 States)

Georgia Licensed Public Adjuster No. 2900576.

Colorado Licensed Public Adjuster No. 519842.

Texas Licensed Public Adjuster No. 2131115.

Contractor Licenses (Inactive)

Class A Virginia Contractor No. 2705023035 (Qualified Individual) (Inactive).

North Carolina General Contractor (S-Roofing) No. 69548 (Inactive).

Registrations

Certified Windstorm Insurance Umpire.
Haag Certified Roof Inspector – Commercial.
Georgia Certified Georgia Soil Classifier.
Senior Certified Hazardous Materials Manager (CHMM), No. 4561.
40-Hour Health & Safety Training per 29 CFR 1910.120.
8-Hour Hazardous-Waste-Site Supervisor/Manager Training.
USACE Construction Quality Management Certification (No. NAO-99-0039).
LEED™ Accredited Professional (AP), U.S. Green Building Council.
GA Level II Certified Design Professional Cert. No. 1209644128, GA Soil and Water Conservation Service.
14 CFR Part 107 - FAA Small Unmanned Aircraft System (UAS) Certification.

Professional Affiliations

American Society of Civil Engineers (ASCE).
National Society of Professional Engineers (NSPE).
Member, Georgia Association of Public Insurance Adjusters (GAPIA).

Presentations

Mr. Shields has given the following presentations:
“Through the Eyes of an Engineer” – Board Panel Speaker, Georgia Association of Public Insurance Adjusters (GAPIA), Fall Conference, 2024.
“Understanding Building Codes”, Georgia Association of Public Insurance Adjusters (GAPIA), Spring Conference, 2024.
“Ongoing Design-Build Remedial Action at the Virginia Properties Superfund Site,” Georgia Society of Professional Engineers, Atlanta, 1998.

Board of Directors

Druid Hills Golf Club, Atlanta, GA – Chairman, Grounds & Greens, 2005-2008; Chairman, Facilities, 2008-2009.
Georgia Association of Public Insurance Adjustors (GAPIA) – Secretary (2022). Treasurer (2023), Vice President (2024), Board of Directors (2024-2025 Term).