

## Curriculum Vitae

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

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Shields Engineering Group, Inc.

409 John Wesley Dobbs Ave, Suite F

Atlanta, Georgia 30312

Office: 404-521-9999 Fax: 404-521-3666 Mobile: 404-909-5254

*mshields@shieldseng.com*

**Academic** University of Florida, Gainesville, FL; BSCE in Civil Engineering, 1988

**Background** University of Florida, Gainesville, FL; MCE in Civil Engineering, 1990

**Expertise** Civil, Structural, Traffic, and Forensic Engineering; ADA Rules and Procedures; Construction Management and Administration, Expert Witness Consultation and Testimony. Mr. Shields has an extensive knowledge base and understanding of building codes, design concepts, and engineering criteria.

#### **Professional Experience**

2009 **SHIELDS ENGINEERING GROUP, INC.**  
to Present **Atlanta, Georgia**

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

Principal Forensic Engineer. Provides expert witness consultation and testimony; analysis of damage(s) to structures, roofs, building envelopes, site retaining walls and foundations; wind and hail damage investigations; water intrusion investigations; code compliance reviews; and determination of construction deficiencies.

Principal Civil Engineer. 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, including layout, traffic studies, egress and ingress studies for ADA compliance, grading, utilities, onsite water management facilities, drainage, storm water management, hydrologic analysis and modeling, erosion and sedimentation control, post construction storm water management, and detail preparation; construction cost estimating; and construction administration management.

1999 **ESTES SHIELDS ENGINEERING, INC.**  
to 2009 **Atlanta, Georgia**

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

Principal Forensic Engineer. Provided expert witness consultation and testimony; analysis of damage to structures, roofs, building envelopes and

foundations; moisture intrusion investigations; code compliance reviews; and determination of construction deficiencies.

Principal Civil Engineer. Development of multi-phase, residential subdivisions, educational and commercial facilities; design of site water distribution, sanitary sewer, onsite waste management facilities; preparation of street plans including geometric layout, structural sections, traffic control, and drainage; ingress and egress studies for ADA compliance; design and analysis of hydraulic structures, stream and channel improvements, detention basins, and retention ponds.

Principal Structural Engineer. Design of wood, concrete, and masonry structures; preparation of structural plans, details, and specifications for residential and commercial buildings.

1990  
to 1999

**DAMES & MOORE/URS GROUP**  
**Atlanta, Georgia**

For a ten-year period, Mr. Shields served as a Project Engineer, Project Manager or Project Director for over 250 small to large environmental and civil engineering projects.

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

Civil Engineer. Foundation and geotechnical engineering including ground improvement for civil construction; slurry wall construction for structural as well as hydraulic containment purposes; foundation investigation and design for shallow and deep foundations, addressing a variety of shallow foundation systems, mats, driven and expanded base piles, and drilled shafts; construction dewatering; and quality control of earthwork and foundation construction.

**Registrations** 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 (Inactive)  
North Carolina, PE No. 26650  
Oklahoma, PE No. 27312  
South Carolina, PE No. 26834

Tennessee, PE No. 107114

Texas, PE No. 109063

Georgia Licensed Public Adjuster No. 2900576

Colorado Licensed Public Adjuster No. 519842

Texas Licensed Public Adjuster No. 2131115

Certified Windstorm Insurance Umpire 2012

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 Certification

**Professional Affiliations** American Society of Civil Engineers  
National Society of Professional Engineers

**Publications** Mr. Shields has authored or co-authored the following:  
“Dynamic Testing of Drilled Shafts”, Co-authored by F.C. Townsend, J.F. Theos and M.D. Shields, ADSC: Association of Foundation Drilling, 1991.  
“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