

EDUCATION

1995 **Bachelor of Science in Civil Engineering**
University of Tennessee, Knoxville

EXPERIENCE

October 2011 **Engineering Design & Testing Corp.**
to Present **Birmingham, Alabama**

Consulting Engineer (October 2011-April 2014)

Engineering Manager (April 2014-Present).

Consulting in the area of structural engineering for residential, commercial, and industrial structures; cause and origin of collapsed structures; evaluation of damage to structures from wind, hail, flood, fire, and settlement; evaluation of retaining walls and slope stability issues; building code compliance; evaluation of construction methods and materials; structural evaluations of framing systems, exterior veneers, roof damage; evaluation of construction defects; scope of damage evaluations; and analysis of costs to repair or replace.

January 2002 **Geert D. Mulder & Sons, Inc.**
to October 2011 **Lansing, Michigan**

Commercial/Residential Home Builder and Land Developer.

Design, engineer and construct subdivisions, single-family housing, multi-family apartment complexes, and commercial facilities. Submit and manage projects through approval processes at municipal boards, planning and engineering departments and all necessary regulators. Production and compilation of submittal packets for government housing projects. Production and submittal of all governmental permitting. Land acquisition and due diligence for future developments. Project schedules, budgets, and safety program. Management project inspection to review schedule parameters, work progression, quality, and safety. Subcontractor selection and management.

October 1999 **Gonzalez Strength and Associates, Inc.**
to December 2001 **Birmingham, Alabama**

Engineer.

Design and project management of commercial, residential, and industrial site developments. Preparation of full construction documents, including preliminary/final drainage, grading, roadway, and utility layout with details. Engineering design and construction document production for projects. Modeled pre- and post-development, drainage areas and basins to study impact of developments, then mitigated adverse effects with storm water detention systems and best management practices. Designed pump stations and force mains.

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- May 1998
to September 1999 **David Evans and Associates, Inc.**
Birmingham, Alabama
Engineer.
Design of commercial, residential, and industrial site developments. Preparation of full construction documents, including preliminary/final drainage, grading, roadway and utility layout. Below ground detention design, project review and approvals, coordinate in multiple states and jurisdictions, and with other offices.
- July 1997
to April 1998 **Fred White Engineering, Inc.**
Lansing, Michigan
Engineer.
Design and production of construction documents for single and multi-family residential and commercial developments. Municipal and regulating authority modeling approvals. Drainage basins to determine developmental effects and design mitigating systems. Condominium subdivision legal recording documents. Preliminary and final plat production. Survey and boundary drawings from field data and notes. Field surveying including topography and construction staking.
- September 1996
to January 1997 **Asfour & Associates, Inc.**
Knoxville, Tennessee
Engineer.
Structural component design, including concrete retaining walls.

REGISTRATIONS and CERTIFICATIONS

- Registered Professional Engineer in Alabama (#24456)
- Registered Professional Engineer in Arkansas (#15014)
- Registered Professional Engineer in Florida (#73757)
- Registered Professional Engineer in Georgia (#PE036739)
- Registered Professional Engineer in Louisiana (#36898)
- Registered Professional Engineer in Michigan (#6201049012)
- Registered Professional Engineer in Mississippi (#20610)
- Registered Professional Engineer in New York (#109353)
- Registered Professional Engineer in North Carolina (#057604)
- Registered Professional Engineer in Tennessee (#115558)
- Certified Residential and Commercial Roof Inspector
- Company Certified Rope Assisted Roof Climbing
- National Council of Examiners for Engineering and Surveying (#21417)
- Real Estate Associate Broker in Michigan (#6502363855)
- Residential Builder in Michigan (#2101169306)

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers (ASCE)

National Roofing Contractors Association (NRCA)

Structural Engineers Association of Alabama (SEA)

PRESENTATIONS

Changes in the Wind Provisions in ASCE 7-10 from ASCE 7-05, Technical Presentation; 2013 Annual Engineers Meeting – EDT Corp.; Columbia, South Carolina; February 8, 2013

Household Failures, Issues and Defects, Presentation to Alabama Chapter of National Association of Subrogation Professionals, Birmingham, Alabama; October 7, 2016

Creative Engineering 101, Technical Presentation, 2022 Annual Engineers Meeting – EDT Corp.; February 8, 2022

Hail Testing on Metal Roofs, Technical Presentation, 2024 Annual Engineers Meeting -EDT Corp.; Greenville, South Carolina; February 16, 2024

CONTINUING EDUCATION

Attributes of a Leader

A Comparison of Runoff Estimation Techniques

A Guide to Use in Buildings and Bridges

ASCE Wind Loads for Buildings and other Structures

Basic Knowledge of Steel, What You Should Know

Bridge Preservation Guide

Construction Defect Investigations

Construction of Residential Buildings in Coastal Areas

Culvert Design

Data Technology for Investigations

Design Aspects of Repairs

Diagnosing Common Concrete Problems

Earth Retaining Structures

Ethics for the Practicing Engineer – Organizational Issues

Frequently Asked Wind Questions Answered

Fundamentals of Concrete

Hydrology – A Look at Stormwater, Drainage and Flooding

Incorporating Steel Fibers in Your Concrete Slab

Issues Encountered During Roof Evaluations

Lateral Earth Pressure for Non-Geotechnical Engineers

Low Impact Design Using Concrete Products

Masonry Design: Installation and Workmanship

Mechanically Stabilized Earth Walls and Geosynthetics

Modern Data Management for Engineering Investigations-Acquisition, Storage and Access

On Thin Ice – Building Failures During Winter

Safety on the Job

Segmental Retaining Wall Design & Construction

Snow Load Failures

Steel Connection Design and Failure Analysis

Technical Issues Regarding Premise Liability

Technical Challenges of Oceanic Wind Turbines

Wildland Urban Interface & Mitigation Strategies