



## **Curriculum Vitae for W. Michael DeLoach, PE Structural Engineer**

WMD Engineering Consultants is a structural consulting design firm. Our firm specializes in the design and analysis of concrete and steel structures. WMD, Inc services include:

- Complete structural design of steel and concrete structures with construction administration
- Structural analysis for additions to existing structures
- Drafting services

### **Experience:**

2018-Present President WMD Engineering: Responsible for complete structural design of new warehouse, process, and office structures, creating project specifications, retrofit design for existing and disaster affected structures.

2003-2018 Structural Engineer with Freeland Harris Consulting Engineers: Responsible for complete structural design of new structures, retrofit design for existing and disaster affected structures from both fire and storm.

1998-2002 Hurricane Research Clemson University: Conducted destructive testing of hurricane resistant structures and examined failure modes of houses damaged by hurricanes and tornados. Outfitted houses with electrical and computer monitoring for wind and rain data acquisition. Provided product testing for Dade County Florida approval. Designed scaled model structures for wind tunnel studies.

### **Education:**

Master of Engineering Clemson University 2002

Bachelor of Science Civil Engineering Clemson University 2001

### **Professional Certifications and Associations:**

Licensed Professional Engineer in: Georgia, Florida, Alabama, Tennessee, South Carolina, North Carolina, Kentucky, Virginia, Maryland, Indiana, Ohio, Connecticut, Iowa, Arkansas, Louisiana, Texas, Wisconsin, Michigan, New Jersey, Pennsylvania, Kansas

NCEES Professional Engineering Record Maintained

American Society of Civil Engineers, Structural Engineers Association of South Carolina,

Tilt Up Concrete Association



## **Professional Development: (Updated Yearly)**

- Tilt Up Convention and Expo
- Business and Engineering Ethics
- Foundation Technologies Helical Pile and Tie Back for Failing Foundation Walls
- Simpson Strong Tie: Soft Story Retrofit, Wind Design, Concrete Repair, Anchor Design, Deck Construction and Repair
- Viance Fire Resistant Treated Wood Design
- Dynamic and Static Fire Joint Protection
- Alternate Means and Methods as Applied to Structural Design
- Vibration Mitigation of Steel Structures

## **Projects Completed:**

- Shipping terminals for Old Dominion, SAIA, Southeastern Freight Lines, Averitt Express, Estes Express throughout the United States
- Insulated and Non-Insulated Metal Panel and Tilt Up warehouses and cold storage food distributors (Frito Lay, Foundation Technologies, Pilgrims Pride, St Joe-Venture Crossings, and Versa-Cold)
- Tilt Up Movie Studios for Pinewood and Three Ring Studios
- Multi-Story Class A Tilt Up and Precast office buildings (Hamburg Place in Lexington, KY, Beckrich in Panama City, FL)
- Churches (Port City in Wilmington, NC, St Peter Chanel Roswell, GA)
- Automotive Manufacturing and Heavy Process Industrial Buildings and Foundations (Toyota Boshoku in Lebanon, KY, LG Hausys in Calhoun, GA, Delphi in Cottondale, AL)
- Tilt Up Correctional Facilities (GEO throughout Florida and Texas, County Facilities in Georgia, Texas, and Florida)