



## PERSONNEL QUALIFICATIONS

### Michael A. Horst | Principal and Unit Manager



#### EDUCATION

- Georgia Institute of Technology
  - Bachelor of Civil Engineering, Civil Engineering, 1993

#### PRACTICE AREAS

- Facade Assessment
- Water Penetration Testing
- Masonry Assessment
- EIFS and Stucco Systems
- Structural Evaluation
- Wood Structures
- Repair and Rehabilitation Design
- Litigation Support

#### REGISTRATIONS

- Professional Engineer in AL, FL, GA, MS, and TN

#### PROFESSIONAL AFFILIATIONS

- American Architectural Manufacturers Association
- ASTM International

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 1998, Michael Horst has conducted numerous investigations, condition surveys, analyses, and repair designs for a variety of historic and contemporary structures. This work has included the evaluation of masonry, concrete, and wood structures; stucco, EIFS, and masonry cladding; and a variety of window and curtain wall systems. Mr. Horst's investigations have involved the assessment of deterioration, distress, and water leakage through building envelopes. He has also performed evaluations of hundreds of structures related to alleged hurricane, tornado, and fire damage.

Mr. Horst has prepared repair documents for concrete, wood, and masonry structural systems and brick, terra cotta, EIFS, stucco, and stone facade elements. He has utilized his investigation experience to perform prepurchase assessments and provide litigation support to a variety of clients.

Prior to joining WJE, Mr. Horst was a Civil Engineering Corps Officer in the U.S. Navy. He managed over \$30 million of construction projects, including an \$11 million barracks renovation project.

#### REPRESENTATIVE PROJECTS

##### Facade Assessment

- View at Chastain - Atlanta, GA: Investigation of brick masonry distress in ten-story condominium
- Castaway Condominiums - Orange Beach, AL: Hurricane damage evaluation of windows and stucco facade on ten-story building
- Community College Campus - MS: Evaluation of hurricane damage to window and facade elements on over thirty buildings, ranging from single-family residences to large classroom structures

#### Masonry Assessment

- Eagle & Phenix Mills - Columbus, GA: Condition survey, construction observation, and water testing of historic brick masonry mill building
- Spelman College Dormitories - Atlanta, GA: Evaluation of masonry distress, repair design, and construction observation of two dormitory buildings

#### Structural Evaluation

- Memphis City Schools Central Nutrition Center - Memphis, TN: Investigation and repair design of 1930s-era wood trusses and columns
- Dungeness Ruins - Cumberland Island, GA: Evaluation, structural design of stabilization, and construction observation for historic mansion

#### Repair and Rehabilitation Design

- Dean Rusk Building - Athens, GA: Water leakage investigation, repair design, and construction observation for office/classroom building
- Old Civil Engineering Building - Atlanta, GA: Condition survey of facade, roofing, and structural systems and repair design for 1930s era classroom building
- Cumberland Center - Atlanta, GA: Water leakage investigation and repair design for window and granite repairs on seventeen-story office building

#### Litigation Support

- Wild Dunes - SC: Investigation of water leakage and alleged window manufacturing defects
- Choctaw County Schools - AL: Investigation of construction and design defects at three schools
- Germanshire Elementary School - Memphis, TN: Investigation of foundation and structural deficiencies