



## PERSONNEL QUALIFICATIONS

### Joshua White | Associate III



#### EDUCATION

- Abilene Christian University
  - Bachelor of Science, Physics, 2008
- Texas A&M University
  - Master of Science, Civil Engineering, 2012

#### PRACTICE AREAS

- Nondestructive Evaluation
- Structural Analysis/Computer Applications
- Bridges and Civil Infrastructure
- Failure/Damage Investigations
- Instrumentation/Monitoring/Load Testing
- Repair and Rehabilitation

#### REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- ASBI Grouting Training
- OSHA 10 Hour Construction

#### PROFESSIONAL AFFILIATIONS

- American Society of Nondestructive Testing
- Structural Engineers Association of Texas

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2015, Joshua White has been involved in the evaluation, design, and rehabilitation of numerous engineering projects, including concrete, steel, and wood structures. Mr. White specializes in the development and application of nondestructive evaluation (NDE) technologies, including but not limited to ultrasonics, ground penetrating radar, infrared thermography, and multi-method approaches.

Prior to joining WJE, Mr. White worked as a Graduate Research Assistant with Texas A&M Transportation Institute, where he participated in numerous sponsored research projects. For these projects, he evaluated and developed NDE technologies for bridge, roadway, and tunnel inspections, as well as large scale testing programs, strut-and-tie design, and finite-element modeling. Prior to and during his graduate studies, Mr. White accumulated more than ten years of experience in construction, including owning and operating a residential construction company.

#### REPRESENTATIVE PROJECTS

##### Nondestructive Evaluation

- Airport Taxiway - Houston, TX: Evaluation of concrete slab debonding \*
- Airport Parking Structure - Dallas/Fort Worth, TX: Evaluation of voids within post-tensioned beams
- Interstate Highway - Fort Worth, TX: Evaluation of highway cracking and delamination \*
- Eisenhower Memorial Tunnel - Clear Creek and Summit Counties, CO: Evaluation of reinforced concrete tunnel lining \*
- No Name Tunnel - Garfield County, CO: Evaluation of reinforced concrete tunnel lining\*
- Hanging Lake Tunnel - Garfield County, CO: Evaluation of reinforced concrete/shotcrete tunnel lining\*
- Chesapeake Channel Tunnel - Chesapeake Bay, VA: Evaluation of reinforced concrete/steel tube tunnel lining \*
- Washburn Tunnel - Houston, TX Evaluation of reinforced concrete/steel tube tunnel lining \*

- Embassy - Mexico City, Mexico: Evaluation of facade distress \*

##### Structural Analysis/Computer Applications

- Office Building - Roundrock, TX: Structural analysis of low-strength concrete slab-on-grade
- Port of Houston Authority - Houston, TX: Condition assessment and repair recommendations for wharf structures
- Multistory Office Building - Houston, TX: Condition assessment and structural analysis of steel framing and foundation

##### Bridges and Civil Infrastructure

- Interstate Highway - Houston, TX: Assessment of concrete deck cracking
- Various Bridges - Houston, TX: Initial inspection reports

##### Failure/Damage Investigations

- Storage Facility - Conroe, TX: Investigation of corrosion and concrete distress in new construction
- Educational Facility - College Station, TX: Investigation of foundation distress

##### Instrumentation/Monitoring/Load Testing

- Spherical Chemical Tank - Houston, TX: Condition assessment including foundation/support instrumentation and monitoring
- New Construction - The Woodlands, TX: Tie-back anchor system evaluation and testing

##### Repair and Rehabilitation

- 3050 Post Oak Garage - Houston, TX: Condition assessment, structural evaluation, and repair/rehabilitation of prestressed double-tee distress
- Staybridge Suites - Houston, TX: Damage assessment, structural evaluation, and repair/rehabilitation of wooden trusses and header
- Parking Garage - Houston, TX: Structural condition survey
- Shopping Center - Humble, TX: Condition assessment, structural evaluation, and design of concrete tilt-wall modification

\* Indicates with previous firm