



#### EDUCATION

- University of Texas at Arlington
  - Bachelor of Science, Architecture, 2010
  - Bachelor of Science, Civil Engineering, 2019

#### PRACTICE AREAS

- Structural Assessment and Repair Design
- Building Enclosure Consulting
- Historic Preservation
- Nondestructive Evaluation
- Materials Science

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)
- International Concrete Repair Institute (ICRI)
- International Institute of Building Enclosure Consultants (IIBEC)
- Structural Engineers Association of Texas (SEAOt)

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2020, Albert Hanna has gained experience in historical preservation, nondestructive evaluation, water intrusion testing, repair design for structural and building enclosure systems, and below-grade waterproofing. His projects also include installation and monitoring of testing equipment, materials science, geotechnical engineering, integration of 3D modeling into repair design, and development of innovative technological solutions to project challenges.

Prior to joining WJE, Mr. Hanna worked for commercial architecture and general contracting firms providing design, drafting, and construction administration/observation services.

#### REPRESENTATIVE PROJECTS

##### Structural Assessment and Repair Design

- Sister Grove Regional Water Recovery Facility - McKinney, TX: Repair design and construction phase services for remediation of distress to reinforced concrete walls
- Hill College, Building 100 - Burleson, TX: Investigation, repair design, and construction phase services for remediation of deteriorated precast structural framing
- Terrell State Hospital - Terrell, TX: Investigation, repair design, load testing, and construction phase services for remediation of deteriorated precast structural framing
- PCI Health Training Center - Richardson, TX: Investigation, repair design, and construction phase services for remediation of deteriorated reinforced concrete columns

##### Building Enclosure Consulting

- Globe Life Field - Arlington, TX: Building enclosure consulting and construction phase services; below-grade waterproofing consulting and warranty conformance
- Hartsfield-Jackson International Airport - Atlanta, GA: Building enclosure consultation and construction phase services for T-midpoint expansion and Concourse D widening
- Dickies Arena - Fort Worth, TX: Water intrusion testing of building enclosure

#### Historic Preservation

- Sanger Lofts - Fort Worth, TX: Assessment, repair design, and construction phase services for rehabilitation of historic masonry and windows on loft conversion listed on the National Register of Historic Places
- Knights of Pythias Club Building - Fort Worth, TX: Investigation of distress and condition assessment of historic masonry on retail and office building listed on the National Register of Historic Places
- Cotton Belt White Rock Creek Bridge - Addison, TX: Historic bridge assessment
- Borger Dome - Borger, TX: Design of schematic repairs to building enclosure of geodesic Kaiser dome

#### Nondestructive Evaluation

- Margaret Hunt-Hill Bridge - Dallas, TX: Installation of strain gauges to assess loading conditions and reactions at deck support members
- Lockheed Martin Missiles and Fire Control - Grand Prairie, TX: Vibration study for new equipment installation
- Quantico Middle School - Quantico, VA: Investigation of concrete consolidation in insulated concrete form walls using ground penetrating radar
- Sister Grove Regional Water Resource Recovery Facility - McKinney, TX: Ultrasonic pulse velocity testing on reinforced concrete walls

#### Materials Science

- American Airlines Cayenne Catering Kitchen, Dallas Fort-Worth International Airport - TX: Investigation of coating failures on tilt-up wall panels
- Charles Schwab Corporate Office - Westlake, TX: Investigation of coating failures on steel structural framing