

### Daniel T. Pearson | Senior Associate



#### EDUCATION

- Texas A&M University
  - Bachelor of Science, Civil Engineering, 2013
  - Master of Engineering, Civil Engineering, 2014

#### PRACTICE AREAS

- Repair and Rehabilitation
- Steel Structures
- Failure/Damage Investigations
- Structural Analysis/Computer Applications
- Bridges and Civil Infrastructure

#### REGISTRATIONS

- ARSC Basic Orientation Plus
- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in CA, OR, and TX
- Structural Engineer in LA and OK
- TSA Transportation Worker Identification Credential

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Structural Engineers Association of Texas

#### CONTACT

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#### EXPERIENCE

Daniel Pearson is involved in the assessment, evaluation, and repair/rehabilitation of numerous structures. His project work includes steel, concrete, masonry, and wood structures. He has experience working in buildings, parking garages, bridges, marine facilities, and process-plant structures.

Before joining WJE, Mr. Pearson was a structural engineering consultant in the oil-and-gas industry, where he gained expertise in onshore and offshore oil-and-gas facilities. His graduate research at the Texas A&M Transportation Institute focused on evaluating roadside barriers and related hardware through the application of nonlinear, dynamic, finite element analyses of vehicle impacts with roadside barriers.

#### REPRESENTATIVE PROJECTS

##### Repair and Rehabilitation

- Barbours Cut Terminal Wharf - Houston, TX: Design for structural retrofit of wharf to support new gantry cranes
- Chemical Plant Process Building - Houston, TX: Assessment and repair design for structural steel process building
- Refinery Process Tower Foundation - Houston, TX: Condition assessment and repair design for reinforced concrete tabletop structure
- Chemical Plant Support Structure - OK: Assessment and repair design for steel process support structure

##### Steel Structures

- Pipeline Suspension Bridge - Houston, TX: Assessment of structural steel towers of suspension bridge and development of prioritized repair recommendations
- Steel-Framed Garages - Houston, TX: Assessment of steel-framed garages and development of prioritized repair recommendations
- Refinery Pipe Rack - Houston, TX: Condition assessment and conceptual repair recommendations for steel pipe rack
- PSA Airlines Aircraft Hangar - San Antonio, TX: Main truss and secondary member analysis and strengthening design

##### Failure/Damage Investigations

- Tilt-Up Warehouse - Houston, TX: Investigation of tilt-up warehouse roof collapse
- Aircraft Hangar - Houston, TX: Investigation of steel aircraft hangar collapse during construction
- Elementary School - Fort Lauderdale, FL: Investigation of school-roof collapse
- Pedestrian Bridge - Houston, TX: Investigation of pedestrian bridge soffit collapse
- Tilt-Up Office Building - Houston, TX: Investigation and repair design related to tilt-up office building roof collapse
- Hurricane Damage Assessments - Various Locations, U.S.: Post-hurricane structural assessment of numerous buildings

##### Structural Analysis/Computer Applications

- Historic Office Building - Port Arthur, TX: Nonlinear structural analysis of seven-story historic office building
- Highway Interchange Connectors - Houston, TX: Nonlinear finite element analysis of horizontally curved steel girders for erection
- Reinforced Concrete Bridges - OR: Refined load rating of multiple bridges using CSiBridge
- Pre-Engineered Metal Building Facility - McAllen, TX: Structural assessment and detailed structural analysis of existing building to current building code

##### Bridges and Civil Infrastructure

- Suspension Bridge - Waco, TX: Structural analysis of suspension bridge during suspension cable replacement
- Steel Pedestrian Bridge - Houston, TX: Erection engineering for multispan, horizontally covered steel pedestrian bridge
- In-Service Bridges - Houston, TX: Routine inspections of numerous bridges and retaining walls
- Interstate Highway - Houston, TX: Assessment of concrete deck cracking
- Reinforced Concrete Bridges and Culverts - OR: Refined load ratings of multiple reinforced concrete bridges and culverts