



EDUCATION

- Virginia Polytechnic Institute and State University
 - Bachelor of Science, Civil Engineering, 2006
 - Master of Science, Civil (Structural) Engineering, 2008

PRACTICE AREAS

- Repair and Rehabilitation Design
- Facade Assessment
- Structural Evaluation
- Roofing and Waterproofing
- Construction Troubleshooting
- Construction Observation Services
- Condition Assessment
- Research and Testing

REGISTRATIONS

- Professional Engineer in TX and VA
- ICRI Certified Concrete Slab Moisture Testing Technician

PROFESSIONAL AFFILIATIONS

- American Concrete Institute - Austin Chapter
- The Masonry Society

CONTACT

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EXPERIENCE

Since joining WJE in 2013, Daniel Axson has been involved in projects relating to peer review, repair, testing, and assessment of various structural and building envelope systems. Prior to joining WJE in Austin, he worked as a professional engineer in Virginia and was involved in a diverse range of projects relating to the repair and rehabilitation. Mr. Axson conducted investigations of structural systems and building envelopes and gained experience using destructive and nondestructive techniques, including surface penetrating radar, impact-echo testing, and half-cell testing. He has experience in repairing steel, concrete, masonry, and wood structures

In addition to structural-related work, Mr. Axson also has experience related to building envelope investigation and repair. He has employed a variety of destructive and nondestructive methods to complete investigations and develop repair documents.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- Petex Building - Austin, TX: Repair of masonry facade and waterproofing for embedded structural steel elements
- Ambler Johnston Hall - Blacksburg, VA: Repair design of limestone masonry shelf angles and waterproofing *
- Brown College - Charlottesville, VA: Repair/replacement design of distressed concrete slabs *
- Earl G. Swem Library - Williamsburg, VA: Repair and construction administration of waterproofing, masonry, and curtain wall systems *

Facade Assessment

- Condominiums - South Padre Island, TX: Nondestructive and destructive testing to evaluate water infiltration issues
- Multistory Hospital - Orlando, FL: Assessment of masonry facade distress due to differential movement *
- Multistory Hospital - Charleston, SC: Evaluation of air infiltration through facade *

Structural Evaluation

- Warrenton Presbyterian Church - Warrenton, VA: Assessment of and repair design for wood roof trusses after heavy snow *
- Heavy Timber Truss Repair - Williamsburg, VA: Forensic evaluation of failed timber member for repair and recommendations for continued monitoring of remaining trusses *

Construction Troubleshooting

- Resignation Media - Austin, TX: Building envelope consulting during construction
- Shopping Center - Charlottesville, VA: Evaluation of severe condensation in unfinished shopping center *

Construction Observation Services

- Science and Technology Building - Fairfax, VA: Construction observation and troubleshooting of building envelope installation *
- Hospital Expansion - Virginia Beach, VA: Construction observation and troubleshooting of building envelope installation *
- DuPont Hall - Williamsburg, VA: Rehabilitation of solid CMU/brick masonry and precast-clad building to repair deteriorated facade *
- Graduate Housing Complex - Williamsburg, VA: Complete removal and rebuilding of masonry facade, including repairs to wood structure, new waterproofing, and new windows *

Condition Assessment

- Bleacher Assessment - Arlington, VA: Condition assessment and repair recommendations for two steel-framed bleachers exhibiting corrosion-related distress *

Research and Testing

- Master's Thesis Research: Scaled and full-scale testing of various configurations of local zone to estimate the strength of local anchorage zones in post-tensioned lightweight concrete *

* Indicates with other firms