

Zachary Stutts | Associate III



EDUCATION

- Virginia Polytechnic Institute and State University
 - Bachelor of Science, Civil Engineering, 2010
- University of Texas at Austin
 - Master of Science, Civil Engineering, 2012

PRACTICE AREAS

- Concrete Structures
- Wood Structure Assessment
- Earthquake Engineering
- Structural Analysis/Computer Applications
- Steel Structures
- Litigation Consulting

REGISTRATIONS

- Professional (Civil) Engineer in CA and WA

PROFESSIONAL AFFILIATIONS

- ACE Mentor Program of Washington
- Structural Engineers Association of Washington (SEAW)

CONTACT

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EXPERIENCE

Zachary Stutts has experience with structural investigations, assessment, and design. He has worked on projects involving concrete, steel, wood, and composite structural systems.

Prior to joining WJE, Mr. Stutts worked for a structural engineering consulting firm in Seattle for five years as a project engineer where he was responsible for analysis, design, coordination, and construction review of building structures and components. He designed office towers, hotels, and residential buildings up to sixty stories and participated in means and methods design assistance for contractors.

At the University of Texas at Austin, Mr. Stutts researched concrete aggregate qualification testing, and he completed internships with AISC, a structural engineering firm, and a geotechnical engineering firm.

REPRESENTATIVE PROJECTS

Concrete Structures

- Parking Garage - Renton, WA: Analysis of post-tensioned slabs with corrosion issues
- Manufacturing Facility - Gresham, OR: Condition assessment and investigation of cracked slab-on-grade concrete
- Office Building - Seattle, WA: Design of two-way post-tensioned concrete slabs*
- Residential Building - Chicago, IL: Design of one-way post-tensioned slab and beam floor system for parking garage*
- Civic Building - Bellevue, WA: Design of two-way post-tensioned concrete slabs including design of field repairs*
- Office Building - San Francisco, CA: Design of pier-supported mat foundation, mild reinforced concrete slabs, hydrostatic pressure slab with tie-downs, and columns for high-rise tower*

Wood Structure Assessment

- Agricultural Storage Facility - Hood River, OR: Condition assessment and analysis of snow-damaged roof trusses
- Middle School Gymnasium - Medford, OR: Analysis of fractured roof trusses
- Hardware Store - Moses Lake, WA: Investigation and analysis of damaged bowstring roof trusses

- Timber Pile Bridges - Mississippi Department of Transportation: Condition assessment of several bridges exhibiting deterioration and decay

Earthquake Engineering

- Office Building - Seattle, WA: Design of concrete core lateral system, foundations, and diaphragms*
- Office Building - Seattle, WA: Design of dual concrete core lateral system with composite steel coupling beams*

Structural Analysis/Computer Applications

- Residential Tower - San Francisco, CA: Iterative design of mat foundation subject to unbalanced gravity loads using finite element analysis program*
- Residential Tower - Tampa, FL: Concept design of torsionally irregular concrete core of building prone to strong hurricanes*

Steel Structures

- Wastewater Treatment Plant - Tacoma, WA: Condition assessment of corroded steel baffle wall construction with proprietary coating system
- Wastewater Treatment Plant - Bellingham, WA: Failure investigation of suspended steel pipe collapse with steel hanger components
- Office Building - Boston, MA: Design of steel gravity and lateral elements, including composite steel plate shear wall and analysis of staged steel erection*
- Hotel Tower - Chicago, IL: Design of steel beams, columns, braces, and embed plates for high-end hotel tower*

Litigation Consulting

- Construction Claim - Corvallis, OR: Document review and code research for construction issues related to seismic welding and scheduling
- Construction Claim - Hillsboro, OR: Document review and code research for claim related to egress stairs and fire-proofing requirements

*Indicates with previous firm