



PERSONNEL QUALIFICATIONS

Zachary Stutts | Senior Associate



EDUCATION

- Virginia Tech
 - Bachelor of Science, Civil Engineering, 2010
- University of Texas at Austin
 - Master of Science, Civil Engineering, 2012

PRACTICE AREAS

- Concrete Structures
- Wood Structures
- Steel Structures
- Earthquake Engineering
- Structural Analysis/Computer Applications
- Construction Troubleshooting

REGISTRATIONS

- Professional Engineer in OR and WA
- Structural Engineer in AK, OR, and WA

PROFESSIONAL AFFILIATIONS

- ACE Mentor Program of Washington
- Structural Engineers Association of Washington

CONTACT

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EXPERIENCE

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

Prior to joining WJE, Mr. Stutts worked for a structural engineering consulting firm in Seattle, 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 collaborated in means and methods design assistance for contractors.

REPRESENTATIVE PROJECTS

Concrete Structures

- Parking Garage - Renton, WA: Investigation and analysis of post-tensioned slabs with corrosion issues
- Warehouse Building - Fife, WA: Assessment of fire-affected, cast-in-place concrete walls
- Residential Building - Denver, CO: Analysis of reinforced concrete plaza slab for proposed additional loading
- 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 Structures

- Warehouse Facility - Seattle, WA: Assessment, analysis, and repair design for fractured heavy timber trusses
- Residential Buildings - Anchorage, AK: Investigation into suspected deflection issues at cantilevered floors of apartment buildings
- Warehouse Facility - Sumner, WA: Assessment, analysis, and repair design for distressed heavy timber trusses and roof framing members
- Agricultural Storage Facility - Hood River, OR: Condition assessment, analysis, and repair design for snow-damaged, metal, plate-connected roof trusses

Steel Structures

- Federal Government Facility - WA: Analysis of existing steel-framed buildings for new loads from renovation

- Industrial Building - Woodburn, OR: Evaluation of fire-damaged, steel industrial building
- 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 *

Earthquake Engineering

- 2018 Alaska Earthquake - Anchorage, AK: Assessment of dozens of sites for earthquake damage, including residential, educational, industrial, and commercial structures
- Coppins Well - Seattle, WA: Probable maximum loss study for high-rise concrete residential building
- San Juan County Courthouse - Friday Harbor, WA: ASCE 41 seismic evaluation of historic courthouse building
- Office Building - Seattle, WA: Design of concrete core lateral system, foundations, and diaphragms *

Structural Analysis/Computer Applications

- Office Building - Austin, TX: Analysis of post-tensioned concrete roof slab for additional loads and openings
- Residential Building - Portland, OR: Analysis of reinforced concrete parking slab for suspected structural deficiencies
- Residential Tower - San Francisco, CA: Iterative design of mat foundation subject to unbalanced gravity loads using finite element analysis program *

Construction Troubleshooting

- Office Building - Seattle, WA: Analysis of parking slab for heavy, moving construction loads for removal of generator equipment
- Medical Building - Edmonds, WA: Repair design for decayed wood posts discovered during building recladding project
- Residential Building - Atlanta, GA: Analysis and repair design for post-tensioned concrete slab tendon blowout during construction
- Office Building - Seattle, WA: Evaluation and construction inspections for defective curtain wall anchors

* Indicates with previous firm