



EDUCATION

- University of Illinois at Urbana-Champaign
 - Bachelor of Science, Civil Engineering, 2021
 - Master of Science, Civil Engineering, 2024

PRACTICE AREAS

- Structural Analysis and Computer Modeling
- Structural Evaluation and Damage Investigation
- Repair and Rehabilitation Design
- Construction Observation and Troubleshooting
- Reinforced Concrete Structures
- Steel Structures
- Parking Structures

CONTACT

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EXPERIENCE

Since joining WJE in 2022, Joshua Meier has been involved in the evaluation, analysis, design of repairs, and construction observation for steel, reinforced concrete, prestressed concrete, and wood structures. He has performed analyses to evaluate structures in their as-designed and as-built states accounting for site-specific conditions. His project work includes parking structures, conventional residential and retail structures, high-rises, sports stadiums, and historic structures.

During his time at WJE, Mr. Meier has studied code provisions and lab testing reports and has learned from industry experts about concrete anchorage. He has since aided in several projects across multiple WJE offices by offering his developing expertise on anchorage design.

REPRESENTATIVE PROJECTS

Structural Analysis/Computer Applications

- House of Tomorrow - Beverly Shores, IN: Analysis of historic structure from the 1933 Chicago World's Fair; design of unique solutions to meet historic dimensional requirements
- Hawthorne Surgery Center - Vernon Hills, IL: Multiple full-structure analyses to determine demands on hundreds of underpinning repairs
- 801 S. Canal Street - Chicago, IL: Analysis of the main wind force resisting moment-frame system and floor framing for increased demands after renovation; design of steel framing for new media wall
- Concrete Structures - Chicago, IL: Analysis to determine the effects of extensive coring operations through the structural slab during renovation projects
- 10 S. LaSalle Street - Chicago, IL: Analysis of existing one-way slab and design of new steel framing and stiffening elements to accommodate the introduction of a new, high-density loading scenarios

Structural Evaluation/Damage Investigation

- 710 S. Seeley Avenue - Chicago, IL: Ground-penetrating radar evaluation of masonry elevator towers to document as-built construction deficiencies and determine necessary repair locations
- Baxter Headquarters - Deerfield, IL: Assessments of steel-framed garage structures and tensioned cable structure
- Chase Tower - Chicago, IL: Evaluation of plaza concrete and steel framing
- Facade Anchorages - Various Locations: In situ load testing using reaction beams and chain pulls

Repair and Rehabilitation Design

- House of Tomorrow - Beverly Shores, IN: Design of unique steel framing and gypsum deck repairs to meet loading requirements
- Ecolab, Inc. Chemical Plant - Joliet, IL: Design, relocation, and replacement of various steel framing members throughout the facility
- Design of concrete anchorage connections, steel framing members/connections, wood framing members/connections, and concrete framing members

Construction Observation and Troubleshooting

- Malibu Condominiums - Chicago, IL: Observation of concrete repairs and waterproofing work in parking structure; observation of concrete repair work on balconies and facade
- Rate Field - Chicago, IL: Observation of concrete repair work on precast concrete panels and installation of sealant and expansion joints
- 710 S. Seeley Avenue - Chicago, IL: Observation of masonry repairs to elevator towers
- Hawthorne Surgery Center - Vernon Hills, IL: Observation of helical pile and hydraulic pier installation