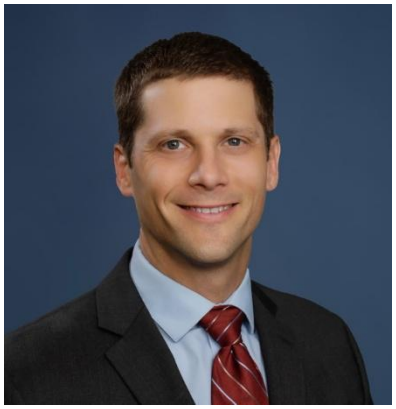
PERSONNEL QUALIFICATIONS

# Lorintz Gleich | Associate Principal



## EDUCATION

- United States Military Academy
  - Bachelor of Science, Civil Engineering, 2006
- Missouri University of Science and Technology
  - Master of Science, Engineering Management, 2012
- Georgia Institute of Technology
  - Master of Science, Structural Engineering, 2014

## PRACTICE AREAS

- Facade Access and Fall Protection Requirements
- Failure Investigation
- Parking Structures
- Repair and Rehabilitation Design
- Structural Evaluation
- Wood Structures

## REGISTRATIONS

- Professional Engineer in AL, FL, GA, MO, NC, SC and TN

## PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Society of American Military Engineers

## CONTACT

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## EXPERIENCE

Lorintz Gleich joined WJE in 2017 and has conducted various structural investigations, including design of repairs and modifications. His experience includes various structural materials, including concrete, wood, masonry, steel, and aluminum. Mr. Gleich also has experience with design and evaluation of fall protection systems, including in situ load testing.

Prior to joining WJE, Mr. Gleich served as a United States Army Engineer Officer for eleven years. During the last three of those years, he served as an assistant professor in the US Military Academy's Department of Civil and Mechanical Engineering, where he taught Design of Reinforced Concrete and Masonry Structures, Structural Analysis, and Fundamentals of Engineering Mechanics. Mr. Gleich also led research projects optimizing ultra-high-performance concrete mix design and full-scale testing projects of concrete bridge piles with stainless steel prestressing strands.

## REPRESENTATIVE PROJECTS

### Facade Access and Fall Protection Requirements

- Grande Lakes Orlando - Orlando, FL: In situ load testing of facade access equipment and anchorages
- 10 Peachtree Place - Atlanta, GA: Retrofit design and in situ load testing of facade access anchorages
- 1100 Peachtree Offices - Atlanta, GA: Design of fall protection system

### Failure Investigations

- Frontage Road Bridge Over the Yellow River - Covington, GA: Investigation of partial collapse of bridge under construction
- Georgia World Congress Center - Atlanta: Epoxy terrazzo flooring failure investigation
- Holiday Inn Express - Bristol, TN: Investigation of partial collapse of hotel under construction
- Multifamily Housing - Nashville, TN: Investigation of exterior cladding that fell to the ground

### Parking Structures

- Embassy Suites - Kansas City, MO: Condition assessment, repair documents, and construction administration for cast-in-place concrete structure
- Multifamily Housing Garage - Atlanta, GA: Condition assessment and repair documents for post-tensioned concrete structure
- Phipps Plaza - Atlanta, GA: Repair documents and construction administration services for prestressed concrete structure with impact damage

### Repair and Rehabilitation Design

- Reinforced Concrete Retaining Wall - Atlanta, GA: Design of supplemental reinforcement and anchorage for deficient, four-story, soil- retaining wall
- 360 Interstate North Office Park - Atlanta, GA: Condition assessment and repair design for reinforced concrete pedestrian bridge
- Saenger Theatre - Biloxi, MS: Design of lateral load retrofit and new roof framing for historic masonry building

### Structural Evaluation

- Forsyth County Fire Department Training Tower - Cumming, GA: Evaluation of wood-framed training tower
- Lenox Mall Parking Garage - Atlanta, GA: Fire damage evaluation of prestressed concrete parking structure damaged by vehicular fire
- Buckhead Village Lofts - Atlanta, GA: Evaluation of excessive deflection in cantilevered concrete balconies

### Wood Structures

- Johnson County Courthouse - Wrightsville, GA: Condition assessment, repair design, and construction administration for historic timber roof truss failure
- Saint Paul's Episcopal Church - Albany, GA: Condition assessment and evaluation of historic, wood-framed roof structure for additional loading
- Multifamily Housing - Raleigh, NC: Investigation and repair of five-story, wood-framed structure due to construction defects and differential movement
- Twenty-One Apartments - Starkville, MS: Repair design of metal plate connected wood floor truss failures