PERSONNEL QUALIFICATIONS

Joseph Hacker | Associate III

EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, Structures Option, 2017
  - Master of Architectural Engineering, Structures Option, 2017

PRACTICE AREAS

- Failure/Damage Investigations
- Concrete Structures
- Wood Structures
- Structural Metals
- Masonry
- Structural Analysis/ Computer Applications

REGISTRATIONS

- Professional Engineer in OH and PA

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Ohio

CONTACT

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EXPERIENCE

Since joining WJE in 2019, Joseph Hacker has been involved in investigations and assessments of new and existing structures. These include damaged and failed components in various systems and materials, including cast-in-place and precast concrete, steel, wood, masonry, glazed curtain walls and windows, membrane waterproofing, and flashings. Mr. Hacker has worked on many investigations involving large amounts of data collection and processing.

Prior to joining WJE, Mr. Hacker was a design engineer with SmithGroup in Detroit, Michigan, focusing on small to mid-sized manufacturing and higher education projects. From this previous experience, Mr. Hacker brings additional project delivery and construction phase services experience.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Industrial Building - Cheshire, OH: Investigation of hopper failure, including selective demolition
- I. Schumann & Co. - Bedford, OH: Structural evaluation of steel structure following an explosion
- Various Buildings - FL: Fenestration evaluations after storm event
- Fairfield Inn - Toledo, OH: Structural evaluation and repair design of a wood-framed structure after a fire event

Concrete Structures

- Ice House - Columbus, OH: Load determination for adaptive reuse, including use of ground penetrating radar, inspection openings, and structural analysis
- Carlyle Parking Garage - Lakewood, OH: Evaluation and repair design for precast double-tee beams
- Renaissance Hotel - Cleveland, OH: Condition evaluation of cast-in-place concrete parking garage

Wood Structures

- Spaghetti Warehouse - Columbus, OH: Evaluation of timber trusses after partial collapse
- Sokal Ceska Sin Hall - Cleveland, OH: Repair design for a partially collapsed timber truss

Structural Metals

- Sports Facility - Columbus, OH: Evaluation of metal roof deck fasteners
- Warehouse - Bedford, OH: Design peer review and reinforcement design of wide-flange steel members

Masonry

- Platform Brewing Company - Cleveland, OH: Structural evaluation and maintenance plan development for a mass masonry building
- Slippery Rock University, Heating Plant - Slippery Rock, PA: Facade evaluation, repair design, and construction phase services
- Private Residence - Loudonville, OH: Evaluation of clay tile distress due to steel corrosion

Structural Analysis/Computer Applications

- Dormitory Building - Ashland, OH: Frame analysis to design repairs of corroded beams
- Higher Education Facility - East Lansing, MI: Truss and frame analysis for new design *
- Manufacturing Building - Warren, MI: Composite beam-and-slab system design for a new building *

** Indicates with previous firm*