



EDUCATION

- Michigan Technological University
 - Bachelor of Science, Civil Engineering, 2021
 - Master of Science, Structural Engineering, 2022

PRACTICE AREAS

- Structural Evaluation
- Glass Performance Studies
- Failure/Damage Investigation
- Concrete Structures
- Facade Assessment
- Repair and Rehabilitation Design
- Leakage Investigation

CONTACT

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EXPERIENCE

Julia Offner conducts projects related to structural engineering and exterior architectural enclosures for new and existing buildings. She prepares technical repair design construction documents and performs assessments, investigations, structural analyses, structural damage and failure evaluations, and quality control construction observations for the repair of steel, glass, wood, and concrete structures.

REPRESENTATIVE PROJECTS

Structural Evaluation

- Packard Proving Grounds Water Tower - Shelby Township, MI: Structural assessment of historic steel water tower
- First Presbyterian Church of Stamford - CT: Structural analysis of secondary glazing system
- Asian Art Museum - San Francisco, CA: Structural analysis of new glass baluster
- 727 Packard Street - Ann Arbor, MI: Investigation and structural analysis of masonry retaining wall

Glass Performance Studies

- Confidential Office Building - Las Vegas, NV: Investigation of insulating glass unit breakage
- 15 Necco Street - Boston, MA: Investigation of spontaneous insulating glass unit breakage
- Private Residence - Georgetown, TX: Investigation of glass breakage

Failure/Damage Investigation

- Private Residence - Dimondale, MI: Structural investigation after vehicle impact
- Tomato Apizza - Birmingham, MI: Evaluation of damage to storefront window system following vehicle impact
- Private Residence - Ann Arbor, MI: Structural damage investigation, design, and repair drawings after tree impact
- U.S. Nutraceuticals - Jasper, FL: Code and structural damage investigation and analysis following hurricane damage
- Auto Pro Service Center - Ferndale, MI: Structural assessment of damage due to high winds

Concrete Structures

- 1300 East Lafayette Parking Garage - Detroit, MI: Observation of concrete repairs at below-grade parking garage
- 1300 East Lafayette Street - Detroit, MI: Observation of repairs to cast concrete facade
- Cottage Hospital - Grosse Pointe Farms, MI: Condition assessment of parking structure
- Rivertown - Grandville, MI: Condition assessment of prestressed double-tee beam parking structure
- Michigan International Speedway - Brooklyn: GPR scanning of precast concrete members to locate embedded steel reinforcement

Facade Assessment

- Confidential Franchise Global Headquarters - Detroit, MI: Structural and facade assessment of custom glass curtain wall
- 411 West Lafayette Boulevard - Detroit, MI: Facade ordinance assessment of curtain wall and granite facade components
- 25 West Alexandrine Street - Detroit, MI: Facade ordinance assessment of precast concrete components of parking garage

Repair and Rehabilitation Design

- Lou & Harry's - East Lansing, MI: Structural design to strengthen roof and second-floor structures
- Salvation Army - Brighton, MI: Structural analysis and design of large opening in the existing masonry wall for new utility
- Burr Oak Elementary School - MI: Structural analysis and design for restructuring of roof

Leakage Investigation

- Grand Tower - Lansing, MI: Investigation of water leakage of curtain wall
- Cytiva Building 31 - Muskegon, MI: Investigation of water leakage in crawl space
- The Fifth - Royal Oak, MI: Water leakage investigation of cast-in-place concrete walls
- Beck Professional Building - Utica, MI: Investigation of water infiltration at punched windows and EIFS cladding system