



#### EDUCATION

- Ohio University
  - Bachelor of Science, Civil Engineering, 2001
  - Masters of Science, Civil Engineering, 2004

#### PRACTICE AREAS

- Facade Assessment
- Construction Observation Services
- Repair and Rehabilitation Design
- Water Penetration Testing
- Peer Review
- Building Enclosure Commissioning
- Water Leakage Investigation
- Curtain Wall Systems
- Roofing and Waterproofing
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in OH

#### PROFESSIONAL AFFILIATIONS

- Building Enclosure Council - Cleveland chapter, co-chair

#### CONTACT

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#### EXPERIENCE

Nathan Gamber has extensive experience in building enclosure condition assessments, design peer reviews, field testing, investigations of new and existing structures, and repair design for various building types to address moisture-related deterioration of above- and below-grade building enclosure materials, components, and systems. Since joining WJE in 2005, he has also been actively involved in construction observation of numerous high-rise multifamily residential buildings, medical facilities, and museums, including preconstruction mock-up performance testing, design refinement, and field quality assurance services. Mr. Gamber has knowledge of a wide range of building enclosure components and systems that comprise curtain walls and other aluminum window cladding components, skylights, metal wall panels, brick masonry, air and vapor barriers, and roofing systems. He has also contributed to the investigation of several moisture-related roof system failures and to the investigation and design of a new, multiply modified bitumen roof assembly for a high-rise structure.

#### REPRESENTATIVE PROJECTS

##### Construction Observation Services

- Springfield Regional Medical Center - Springfield, OH: Observation and quality assurance field testing of building envelope installation during construction, including curtain walls, metal wall panels, brick masonry, air barriers, and roofing systems
- Corning Museum of Glass - Corning, NY: Observation and quality assurance field testing of building envelope installation during construction, including custom glass rain screen and skylight systems, air and vapor barriers, curtain walls, and roofing systems
- Silver Spring Gateway - Silver Spring, MD: Observation and quality assurance field testing of below-grade waterproofing and building envelope installation during construction, including brick masonry, aluminum windows, EIFS, metal panels, air barriers, and roofing systems

##### Repair and Rehabilitation Services

- Cleveland Museum of Art, Cleveland, OH: Condensation investigation of exterior gallery walls and investigation of rainwater penetration into below-grade interior space, leading to development of repair contract documents for plaza waterproofing systems
- Ohio State University, Davis Heart & Lung Research Institute - Columbus: Investigation of rainwater penetration through cladding components including an aluminum curtain wall system, metal wall panels, and brick masonry, leading to development of repair contract documents
- Mylan Building - Canonsburg, PA: Investigation of rainwater penetration, leading to facade repairs of brick masonry flashing at window heads
- Blair House - Silver Spring, MD: Field investigation of existing roof and penthouse structures, leading to development of repair contract documents for roof replacement, brick masonry, and structural steel repairs

##### Water Penetration Testing

- Ohio State University, Longaberger Alumni House - Columbus: Investigation and development of repair recommendations of water leakage through an aluminum curtain wall system
- UPMC Sports Performance Complex - Pittsburgh, PA: Water penetration testing of aluminum curtain wall and polycarbonate glazing systems
- Corning Discovery Building - Corning, NY: Water performance testing of aluminum curtain walls and metal wall panel systems

##### Peer Review

- UPMC East - Monroeville, PA: Peer review of aluminum curtain wall, metal wall panel, and brick masonry systems, including interface detailing of cladding components
- Dayton Children's Hospital - Dayton, OH: Peer review of aluminum curtain wall, skylight, brick masonry, air and vapor barrier, and roofing systems, including interface detailing of cladding components
- American Greetings - Westlake, OH: Peer review of aluminum curtain wall, metal wall panels, brick masonry, and roofing and waterproofing systems