PERSONNEL QUALIFICATIONS

Emmett D. Horton | Senior Associate

EDUCATION

- Carnegie Mellon University
  - Bachelor of Science, Civil Engineering, 2018

PRACTICE AREAS

- Facade Failure and Leakage
- Building Enclosure Consulting
- Windows and Curtain Walls
- Roofing and Waterproofing
- Instrumentation and Monitoring
- Facade Assessment

REGISTRATIONS

- Professional Engineer in DC, MD, and VA

CONTACT

ehorton@wje.com
703.641.4601
www.wje.com

EXPERIENCE

Since joining WJE in 2018, Emmett Horton has gained experience on a broad range of projects related to facade failure investigations, construction observation, field quality assurance, condition surveys, and evaluations of new and existing structures.

Mr. Horton's work has included investigation and repair design for various building types to address bulk rainwater penetration, condensation, and moisture-related deterioration of above- and below-grade building enclosure materials, components, and systems. These systems have included masonry cavity wall and mass wall construction, precast and cast-in-place concrete, below- and above-grade waterproofing, roofing systems, exterior insulation finishing system (EIFS), curtain wall systems, and aluminum and vinyl windows.

REPRESENTATIVE PROJECTS

Facade Failure and Leakage

- Chase Point Condominiums - Washington, D.C.: Investigation of facade-related, uncontrolled water penetration and oversight of repairs at masonry, metal panel, and fenestration facade components
- The Pearl - Silver Spring, MD: Investigation of facade-related uncontrolled water penetration and oversight of repairs at masonry and metal panel cladding, and fenestration assemblies
- Courtyard Marriott - Silver Spring, MD: Investigation of facade-related uncontrolled water penetration and oversight of repairs at EIFS cladding and fenestration assemblies

Building Enclosure Consulting

- Ingleside at Rock Creek - Washington, D.C.: Construction administration and observation services for new senior living facility
- Press House - Washington, D.C.: Construction administration and observation services for new apartment building
- Ingleside at King Farm - Rockville, MD: Construction administration and observation services for additions to existing senior living facility

Windows and Curtain Walls

- 220 20th Street - Arlington, VA: Leakage investigation and repair oversight for hybrid unitized and stick-built curtain wall assembly
- 1919 N. Lynn Street - Arlington, VA: Leakage investigation, repair design, and oversight for unitized curtain wall assembly at office building
- 1401 New York Avenue - Washington, D.C.: Investigation, repair design, and oversight of unitized curtain wall sunshade element failure

Roofing and Waterproofing

- Georgetown University, Yates Recreation Center - Washington, D.C.: Design and construction period services for hot-applied modified bitumen roof assembly replacement with turf athletic playing surface and track
- Anne Arundel Community College, Cade Building - Arnold, MD: Design and construction period services for single-ply TPO roof assembly replacement
- 2400 M Street, NW - Washington, D.C.: Design for hot-applied modified bitumen roof assembly replacement

Instrumentation and Monitoring

- 1775 Tysons Garage Monitoring - Tysons, VA: Installation and monitoring of environmental sensors at precast parking garage
- Government Building - Arlington, VA: Instrumentation setup, testing, and installation to monitor environmental conditions during submersible lighting mock-up
- 930 Rose Avenue - Bethesda, MD: Interior air temperature and relative humidity sensor installation and monitoring during flooring investigation

Facade Assessment

- Johns Hopkins University, Mason F. Lord Building - Baltimore, MD: Survey and evaluation of building enclosure elements, including historic masonry facade, aluminum windows and low-slope roofing assemblies
- Loyola University Maryland, Humanities Center - Baltimore: Survey and evaluation of building enclosure elements including stucco, clay brick masonry, cedar shingle siding, steep-slope slate, cedar, and asphalt shingle roofing assemblies