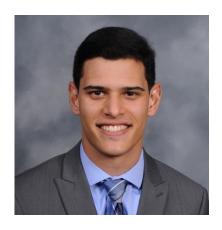
## PERSONNEL QUALIFICATIONS



# Emmett D. Horton | Associate III



## **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

