PERSONNEL QUALIFICATIONS

Anthony K. Dukes | Associate Principal and Unit Manager

EDUCATION

- Clemson University
  - Bachelor of Science, Civil Engineering, 2009

PRACTICE AREAS

- Roofing
- Repair and Rehabilitation Design
- Building Enclosure Consulting
- Adaptive Reuse

REGISTRATIONS

- Professional Engineer in DC, GA, MD, NC. and SC
- Registered Roof Consultant
- Registered Roof Observer

PROFESSIONAL AFFILIATIONS

- International Institute of Building Enclosure Consultants
- Society of American Military Engineers

CONTACT

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EXPERIENCE

Anthony Dukes is a building enclosure consultant with experience in the investigation, assessment, peer review, and design of building enclosures throughout the United States and globally. His specialty is roofing and waterproofing, including most contemporary low-slope and steep-slope roofing assemblies, waterproofing systems, insulation systems, and a wide variety of coatings. Mr. Dukes also has considerable experience with exterior wall assemblies, air barrier systems, glazed assemblies, and building science principles, which—coupled with his specialty roofing and waterproofing practice—give him unique insight into complex investigation, rehabilitation, new construction, and adaptive reuse projects.

REPRESENTATIVE PROJECTS

Roofing

- Anne Arundel Community College - Arnold, MD: Various reroofs, including new TPO roof membrane over metal and cementitious wood fiber roof decks; projects included roof drain replacement, repointing masonry walls above the roof, and copper flashings
- Wicomico County Board of Education - Wicomico County, MD: Various roof condition assessments and reroofs, including modified bitumen, metal roof panel, single-ply, and built-up roofing over metal, wood plank, cementitious wood fiber, poured gypsum, and gypsum plank roof decks
- Airport Plaza Two - Arlington, VA: Reroof, including new TPO and PMMA roof membranes over concrete roof decks; roof drain replacement, roof access ladder replacement, insulated pavers, and premanufactured edge metal
- Under Armour, Building 37 - Baltimore, MD: Roof condition assessment, including visual assessment, nondestructive evaluation of the roof insulation, and verification roof openings

Repair and Rehabilitation Design

- Johns Hopkins University Applied Physics Laboratory, Building 12 - Laurel, MD: Enclosure restoration, including curtain wall reclad, structural retrofits, through-wall flashing replacement, terrace waterproofing replacement, and below-grade waterproofing installation
- Johns Hopkins University Applied Physics Laboratory, Building 17 - Laurel, MD: Enclosure restoration, including curtain wall repairs, through-wall flashing replacement, air barrier repairs, rooftop guardrail replacement, and saddle flashing installation

Building Enclosure Consulting

- Washington Metropolitan Area Transit Authority Headquarters - New Carrolton, MD: Building enclosure consulting for a new construction twelve-story office building, including a custom unitized curtain wall, masonry veneer, stone veneer, fluid-applied air barrier, hot rubberized-asphalt waterproofing, and TPO roofing
- Carlyle Crossing - Alexandria, VA: Building enclosure consulting for a $400M new construction development, including three concrete-framed residential towers above a five-level, partially below-grade concrete parking garage, that includes a grocery store anchor tenant and retail spaces
- Braddock Gateway - Alexandria, VA: Building enclosure consulting for a new construction development, including four wood-framed residential buildings above a multilevel, below-grade concrete parking garage

Adaptive Reuse

- Common Monroe - Washington, D.C.: Multistory punched openings for new aluminum-framed windows within existing mass masonry walls for the conversion of a church into co-living apartments
- Data Center - MD: Existing office building converted into a data center; building enclosure systems included aluminum-framed curtain wall, tilt-up concrete wall panels, and KEE roofing