

Yash Palawat | Forensic Mechanical Engineer, MS, PE, CPD, LEED AP BD+C

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Professional Summary:

Mr. Yash Palawat is a licensed engineer and has over nine years of experience in the construction industry. He began his career as an MEP engineer, designing HVAC, plumbing, and fire protection systems. He has worked on the designs of numerous commercial and residential properties and is familiar with various Building Codes and standards.

Mr. Palawat collaborated with architects, structural and civil engineers, and contractors to design and construct buildings. He oversaw the progress of prominent projects from concept stage to close-out. He created system blueprints, calculated equipment sizes, and drew riser diagrams for bidding and construction. He designed complex domestic water, storm, sanitary, and fire protection systems.

Mr. Palawat is also experienced in dealing with many different stakeholders. He can explain advanced engineering concepts to technical and non-technical parties. His knowledge of the building design and construction industry is an asset in the forensic engineering field. His areas of expertise include, but are not limited to:

- HVAC Systems
- Plumbing Systems
- Fire Protection Systems
- Analyzing and interpreting codes and standards

Licenses and Certifications:

Professional Engineer, New York, #107793

Certified in Plumbing Design, American Society of Plumbing Engineers, #912545

LEED AP Building Design + Construction, U.S. Green Building Council, #11148392-AP-BD+C

Project Experience:

NYU Tandon, Brooklyn, NY **Building Design and Construction**

Managed the mechanical, electrical, and plumbing team for a fit-out of two floors of NYU's engineering building. Performed regular site visits to meet with the contractors and oversee the construction process. Evaluated the conditions of existing equipment, including water heaters, rooftop air handlers, and booster pumps to determine if they needed to be replaced.

One Madison Ave, Manhattan, NY
Building Design and Construction

Designed the plumbing and fire protection systems for multiple tenant spaces, including a rooftop bar, steakhouse restaurant, and marketplace. Collaborated with kitchen consultants, landscape architects, and contractors to ensure the project was successfully designed. Analyzed the structure of the existing building to determine where plumbing piping could penetrate through the floors.

Hudson's Mixed Use Development, Detroit, MI
Building Design and Construction

Designed the plumbing and fire protection systems for a 1.5 million square foot development in Detroit, MI. Coordinated with architects, mechanical, civil, and structural trades through use of AutoCAD and Revit. Learned Michigan building codes and standards.

PS 253K, Brooklyn, NY
Hurricane Sandy Related Repairs

Worked with architects, civil, and structural engineers to design and construct flood proofing systems. Replaced all equipment, including boilers and sump pumps damaged by flood waters. Performed calculations to determine heating and cooling loads.

Professional Experience:

EFI Global, Forensic Mechanical Engineer, 2024 – Present
Jaros, Baum and Bolles, Senior Project Engineer, 2022 – 2024
Buro Happold, Plumbing and Fire Protection Engineer, 2018 – 2022
A&J Consulting Engineering Services, Project Engineer, 2015 – 2018

Specialized Education:

High-rise Installations, ASPE, 2022
The Environmental & Operational Benefits of R744 Heat Pump Water Heaters, ASPE, 2022
Water Heating System Design, ASPE, 2022
Rainwater Harvesting, ASPE, 2022
Guide to Siphonic Drainage, MIFAB, 2022
Guidelines for Best Practices for Water Quality Post COVID-19, ASPE, 2021
Air Conditioning Clinic, Trane, 2016

Education:

Master of Science, Civil Engineering, Columbia University, New York, New York, 2022
Bachelor of Science, Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pennsylvania, 2015

Affiliations:

American Society of Plumbing Engineers (ASPE)
U.S. Green Building Council (USGBC)