



Engineering Excellence | Innovative Design

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ENGINEERING

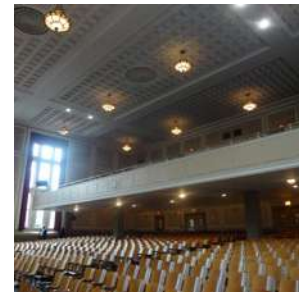


WHO WE ARE

shenoyengineers.com

Shenoy Engineering, P.C. has built a reputation for delivering engineering excellence for our clients through our commitment to innovation, professional service, responsiveness and the ability of completing projects on time and within budget. Shenoy's promise of surpassing client expectations is a testament to the way we work and why our clients rely on us to solve their complex challenges.

Shenoy Engineering, PC is a certified Minority Business Enterprise (MBE) and a Small Business Enterprise (SBE) in New York and New Jersey. Shenoy is headquartered in New Jersey with an office in New York City.



Shenoy Engineering specializes in designing robust Mechanical, Electrical, Plumbing (MEP) and Fire Protection, and ancillary systems for maximum efficiency and reliability. Working collaboratively, we have designed and customized innovative solutions for various types of buildings including schools and colleges, transportation facilities, healthcare facilities and commercial buildings, correctional facilities and residential units. We incorporate sustainability and energy efficiency into our designs. Our successful performance is measured by the fact that a large number of our current projects are from previous clients.



2003

YEAR SHENOY WAS FOUNDED

100+

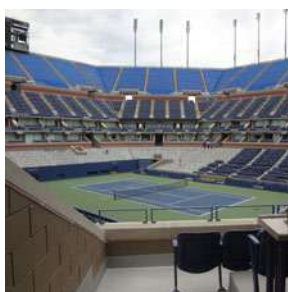
SATISFIED CLIENTS

800+

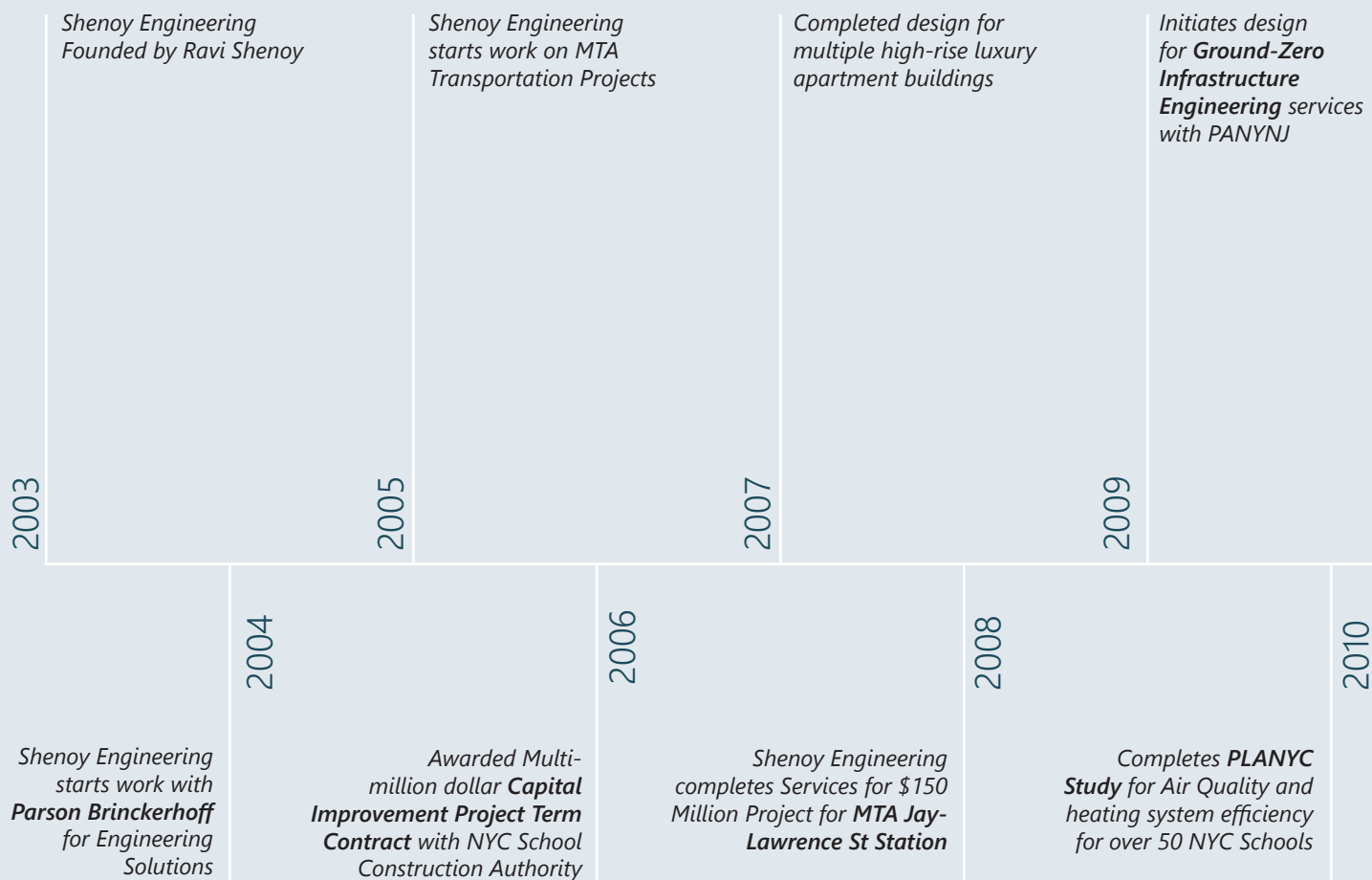
SUCCESSFULLY COMPLETED PROJECTS

60%

GROWTH OVER LAST 2 YEARS



SHENOY AT A GLANCE



2011	<p>Named as "Best of the Best" by Architects Newspaper</p> <p>Completes design for \$80million high rise luxury apartment building for NJ Developer</p> <p>Starts Special Inspections Division</p>	2013	<p>Shenoy Engineering engaged as primary engineering consultant for Sandy Permanent Work in damage and restoration assessment for NYCSCA</p> <p>Wins 2013 Engineering Firm of the Year Award from RASC</p> <p>Wins new MEP Term Contract with NYC Housing Authority</p>
<p>Shenoy Engineering completes Design for two new school buildings - Milestone and 176Q addition</p>	2012	2014	2016
	<p>Starts Design Services for NYC Mayor's - Universal Pre-K School Program</p>	<p>Completes design for Multiple Sandy Resiliency Projects for NYC Agencies amounting to over \$350 Million Construction Costs</p>	

MARKETS | TRANSPORTATION

NYCT JAY STREET/LAWRENCE STREET STATIONS, BROOKLYN, NY

As part of the Station rehabilitation program, Shenoy designed and managed construction of a passenger transfer connector between the Jay Street Station and the Lawrence Street Stations, and installation of 3 ADA elevators at Jay Street station. We provided detailed review shop drawings, responses to RFIs and construction administration services for mechanical, plumbing and communication systems.





VEHICLE SECURITY CENTER AT WTC, NYC

Design in connection with Building Management System [BMS] and Supervisory Control and Data Acquisition [SCADA] system for the Vehicular Security Center [VSC]. An underground secured vehicular parking facility, the Vehicular Security Center includes four levels and is a part of hub that connects several buildings in lower Manhattan.



LIRR VALLEY STREAM STATION, VALLEY STREAM, NY

The goal was to create an improved station environment replete with a new building, rehabilitation of platform structure while keeping the facility fully operational. Shenoy designed new HVAC systems at the station building and the waiting room at the platform level, and new plumbing systems for the redesigned waiting areas and toilets. Using special design criteria, we provided dedicated A/C system, purge exhaust and a separate FM-200 system for the LIRR Communications Room. New security systems including card access, video surveillance and infrared motion detection were also part of the design.



MTA REVENUE FACILITY, MASPETH, NY

Shenoy was part of the design-build team for this new \$60 million facility consolidating multiple revenue facilities of the MTA units - NYCT's money rooms, Metro Card Production Encoding Machine servicing operations, and Tri-borough Bridge and Tunnel authority's money rooms. The two-story building design involved complex mechanical, electrical and plumbing systems. Working closely with MTA, Architect and the general contractor, we created full engineering drawings and specifications for designing a comprehensive and resilient MEP solution for this high security facility. purge exhaust and a separate FM-200 system for the LIRR Communications Room. New security systems including card access, video surveillance and infrared motion detection were also part of the design.

MARKETS | HIGHER EDUCATION

NYU POLYTECH, BROOKLYN, NY

For this fast track project at Rogers Hall, Shenoy assessed exiting HVAC systems and developed a plan to improve the building ventilation and air conditioning. Several spaces including classrooms, offices and labs were spread over different floors of the building and suffered from little or no ventilation, with just window air conditioning units and perimeter steam radiators for heating. To meet the client needs, and not intrude with the building façade, we determined the best option was to upgrade to a packaged self-contained HVAC system that was durable, code compliant, economical and easy to maintain. During the design phase, extensive electrical work was also performed.



MEDGER EVERS COLLEGE, BROOKLYN, NY

The original building at Carroll Street, built in 1913, was served by dated systems. Shenoy was engaged to conduct detailed planning, assessments and engineering design for upgrades to MEP systems, coordinating closely with the Architect, building personnel, and city agencies including DEP and the NYCDOB throughout the project. Our scope ranged from comprehensive MEP design, and design of Lighting, Security and Data Communication Systems. We were involved in new equipment selection, providing temporary units, and testing.





LaGUARDIA COMMUNITY COLLEGE, LIC, NY

Shenoy Engineering was engaged as the MEP Sub Consultant to help create spaces for the Humanity Offices consisting of 11,500 sf. on the 7th Floor of C-3 building at LaGuardia Community College. The MEP scope include design of a new packaged air conditioning system, new power system design to serve the office area. We also replaced lighting and receptacles, and modified the existing Fire Alarm system. Existing sprinkler systems were modified to meet latest code requirements.



KINGSBOROUGH COLLEGE, BROOKLYN, NY

In-depth surveys and condition assessments to study performance and life expectancy of existing exhaust systems, smoke purge and general exhaust, and 28,000 & 12,000cfm systems revealed the need for new systems as well as remediation for water infiltration from various locations at the Performing Arts Center. Shenoy designed modern exhaust systems along with roof exhaust ductwork, controls and supports, and electrical power systems.



MARKETS | K - 12

PS 176Q, QUEENS, NY

To accommodate the increasing number of students, the NYC School Construction Authority (SCA) decided to build a 3 story addition to the existing primary school building. As part of the design team, Shenoy was chosen to provide MEP and fire protection engineering systems for the new addition. While it was important to coalesce the new design with the residential neighborhood, our goal was to create high quality, safe, accessible, and environmentally friendly environment for students, staff and the community. Using sustainable and efficient energy features, we designed a central heating system, gas-fired condensing type boilers located on the roof MER to generate hot water, plumbing sanitary, storm, fire protection systems, and complete power, lighting and fire alarm systems. We also provided upgrades to plumbing and fire protection systems in the existing building. *Image courtesy: Kenny & Khan Architects.*





ST. PETERS SCHOOL, STATEN ISLAND, NY

Shenoy was chosen to provide MEP and fire protection systems engineering. We designed new mechanical systems with multiple RTU's to serve the auditorium, gymnasium and cafeteria; and provided sprinkler protection throughout the building. Electrical design included building distribution power systems, Lighting, Fire alarm, Public Address, Intrusion alarm and Security camera systems. Plumbing design included hot and cold water systems, sanitary and storm systems, gas systems complete with metering, drainage system and utility connections. Image courtesy - SBLM Architects.



SANDY RESILIENCY & RECONSTRUCTION PROJECTS, NYC SCA

Shenoy performed forensics on building systems affected by Hurricane Sandy. This was a special, expedited project involving various city and federal agencies. Our task was to assess damages sustained by boiler plants in over 70 schools that were partially or completely submerged in water. By assembling multiple teams of engineers, boiler manufacturers, testing contractors, and working closely with the client, we organized a meticulously planned investigation and detailed documentation so SCA could obtain approvals and move ahead with reconstruction plans.



MILESTONE SCHOOL, BROOKLYN, NY

Shenoy was engaged to design MEP systems for this 30,000 sft. new child care facility located in a multistory building. The facility contained classrooms, support spaces, offices and some outdoor recreation space. Shenoy provided comprehensive MEP systems with complete HVAC systems; Electrical including power, lighting, fire alarm, PA and auxiliary systems; hot and cold water systems, sanitary and storm systems, gas systems complete with metering, drainage system and all utility connections to the street.

MARKETS | RESIDENTIAL

ROCKEFELLER APARTMENTS, NYC

These two landmark 14-story buildings were equipped with window type air conditioners. Shenoy was tasked with conducting detailed studies for improving the HVAC and electric situation. We presented several options to the tenants and the Board which included installing new central Variable Refrigerant Volume (VRV) air conditioning system, PTAC units or Hopper type PTAC units, while ensuring that local laws and landmark preservation guidelines were met.





NYCHA HURRICANE SANDY CAPITAL IMPROVEMENT PROJECTS - CAREY GARDENS

Carey Gardens consists of 3 buildings - Buildings 1 & 2 are 17-stories each, and Building 3 consists of 15-stories. During Hurricane Sandy, boilers electrical and mechanical equipment in the buildings were ruined. This project includes the construction of a new centralized heating plant with combined services centered on restoration of MEP Systems due to damage incurred during Hurricane Sandy. Shenoy Engineering was MEP Design Consultant.



RIVER VIEW TOWERS, NYC

Shenoy provided complete design and construction administration services, including architectural, structural, and HAZMAT for upgrade for this 24-story, 380 apartment-building. Our MEP services included replacing the existing central heating plant, converting to a dual fuel system to utilize natural gas and #2 oil, a new high pressure gas meter room, boiler power and emergency power system design, and new hot water heating system.



THE ALEXANDER, EDGEWATER, NJ

For this new 8-story luxury apartment building, Shenoy was retained to design complete MEP systems. With 301 apartment units, mezzanine, podium, outdoor pool and recreation areas, and 500 parking spaces, the building systems design was complex since each space had specific requirements. Our innovative solution included gas fired split air conditioning system for common areas, and central gas fired water heaters for the domestic water system. Plumbing systems included hot and cold water systems, sanitary and storm systems, fire protection, gas systems with metering, drainage system, and utility connections to the street. Shenoy also designed exterior and interior lighting systems, fire alarm, telephone, intercom, data and security systems.

MARKETS | COMMERCIAL



LIRR SUTPHIN BOULEVARD ARCADE, JAMAICA, NY

This 2 phased project was intended to redesign and make safer the space below the LIRR station at Jamaica Ave, one of the busiest stations in Queens. The space, owned by LIRR, was developed into an array of stores and offices. Shenoy designed new MEP systems suitable for tenant fit-out, and provided for temporary facilities during construction. Existing freight elevators were reconfigured. Our scope included Plumbing systems design, utility connections, temporary light and power, exhaust pipe system for the new emergency generator, and modifications to the existing LIRR mechanical, plumbing and fire protection services that are necessary as a result of the new work. ADA compliance, vertical transportation and lighting were a key part of this project in order to achieve the project goal of providing safe access to LIRR passengers and the community.

Image courtesy - John Bartlestone



JAMAICA STATION PLAZA, QUEENS, NY

This project, located in downtown Jamaica in the Queens borough, included two new public plazas that housed the East and West Pavilions. The East Pavilion plan included a restaurant space with basement utilities and kitchen. The West Pavilion plan included an open market place designed for multiple vendors. The project involved evaluation of 'Natural Ventilation' Schemes and Solar Power System design, in line with Green Building Design approach. East Pavilion design included rooftop HVAC system design, plumbing, fire protection and electrical system design for restaurant dining and kitchen spaces along with design for all utilities for mechanical plumbing and electrical systems. West Pavilion design included East Shenoy Engineering provided professional engineering design services which included similar mechanical, electrical, plumbing, fire protection and solar systems.

Image courtesy - RKT Architects

MARKETS | CORRECTIONS



ROSE M. SINGER CENTER, RIKERS ISLAND, NY

The principals at Shenoy have worked extensively at various facilities on Rikers Island. This project, a 1,700-bed facility for female detainees featured first jail-based nursery at the Correctional Institution for Women. A new 23 bed Female Infirmary was needed. The scope involved new MEP and fire protection systems design for the new facility, and kitchen renovations to accommodate the expanded capacity.



BRIDGES JUVENILE CENTER, BRONX, NY

To accommodate growing inmate populations, the facility constructed in 1955 needed expansion. Five of the seven wings were renovated including the main entrance, visiting and waiting areas, and the sallyport. Shenoy was engaged to provide HVAC for the renovated areas, electrical and lighting design, new plumbing, sprinklers, security system using IP cameras, and ADA compliance.



NASSAU COUNTY JUVENILE DETENTION CENTER, NY

Nassau County Juvenile Center consists of a boys and girls holding facility with a 1950s building and a 1970s building connected to form one facility. Shenoy Engineering was part of the design team to provide complete rehabilitation and reprogrammed detention center. The new scheme with a comprehensive study included evaluation of existing HVAC, Plumbing, Fire Protection, Electrical, Fire Alarm and Security systems. The study provided new systems for the proposed program with additional recommendations to reuse or upgrade the existing systems to state of good repair and to modify to meet new functional requirements.

MARKETS | HOSPITALITY



SM23 RESTAURANT & BAR, MORRISTOWN, NJ

Located in the Head Quarters Plaza in downtown Morristown, this new restaurant features a bar, two independent dining areas for 2 restaurants, brand new common kitchen, foyer, offices and storage spaces. From new AC, power, indoor and outdoor lighting, new fire alarm, hot and cold water systems, sanitary and storm water, to plumbing hook ups for the kitchen equipment, Shenoy provided complete MEP Engineering design.



MIRAGE BANQUET HALL, EDISON, NJ

This project included design and construction of a new 10,500 sft Banquet Hall to accommodate 500 people comprising of a large banquet space dividable by movable partitions, new toilets, kitchen and office space. The goal was to create a luxurious and comfortable ambience while controlling energy costs and being environmentally friendly. Shenoy provided complete MEP engineering including new AC systems, hot and cold water systems, sanitary and storm water systems. Power, custom lighting and AV was also designed. The sprinkler system was made code compliant and modified to the new layout.



MING II, MORRISTOWN, NJ

With the goal of creating an intimate dining space for its patrons, Shenoy was engaged to provide complete MEP Engineering design. Our services included new AC, power, indoor lighting, new fire alarm, hot and cold water systems, sanitary and storm water, and plumbing hook ups for the kitchen equipment.

MARKETS | HEALTHCARE



WOODHULL MEDICAL CENTER, BROOKLYN, NY

Shenoy Engineering was engaged in work related to existing Con Edison transformer vaults. Work included alternate power scheme study and associated safety requirements for performing work around live high voltage equipment. Special water leak detection system was designed for the vaults with additional plumbing design for vault roofs. Mechanical design included vault ventilation system rehab and modification to facilitate work for all trades and for the replacement of plaza above. As part of DASNY HHC Emergency Power System Upgrade contract, Shenoy Engineering also provided Design Review, Constructability Review, Full Time Site Supervision and Inspection Services



EMERGENCY POWER SYSTEMS UPGRADE, NYC

For various locations of the NYC HHC, an Emergency Power Systems upgrade was provided to improve resiliency and stability of power systems. Shenoy was retained to perform detailed design review, constructability review and inspection services at various hospitals through out New York City.



MEADOW LAKES NURSING HOME, EAST WINDSOR, NJ

Shenoy provided complete MEP design for 2 newly renovated wings, and various upgrades to increase efficiency and making systems code compliant. New HVAC systems and upgrades to the fire alarm, power systems, plumbing, and communication systems. New sprinklers were designed for the renovated wings.

SERVICES



Mechanical Engineering



Electrical Engineering



Plumbing & Fire Protection



Central Plant & Utilities



Building Management Systems



Electronic Security



Lighting Design



Energy & Sustainability



Testing & Troubleshooting Analyses



Special & Progress Inspections



Construction Services

RAVI SHENOY, MSME, P.E., *PRESIDENT*

Ravi Shenoy founded Shenoy Engineering in 2003. With over 44 years of experience in design, construction and management of MEP systems in various types of facilities in public and private sectors, his in-depth knowledge and expertise provide direction to effective project delivery. He has extensive experience in design of high performance buildings. His experience lends to Green Building opportunities and strategies. He was team member in developing Green Building Design Standards for NYCDDC. He holds a Masters of Mechanical Engineering from Cooper Union, and is a registered PE in NY and NJ.

JOSE M. HONRADO, B.E., MBA, *PRINCIPAL*

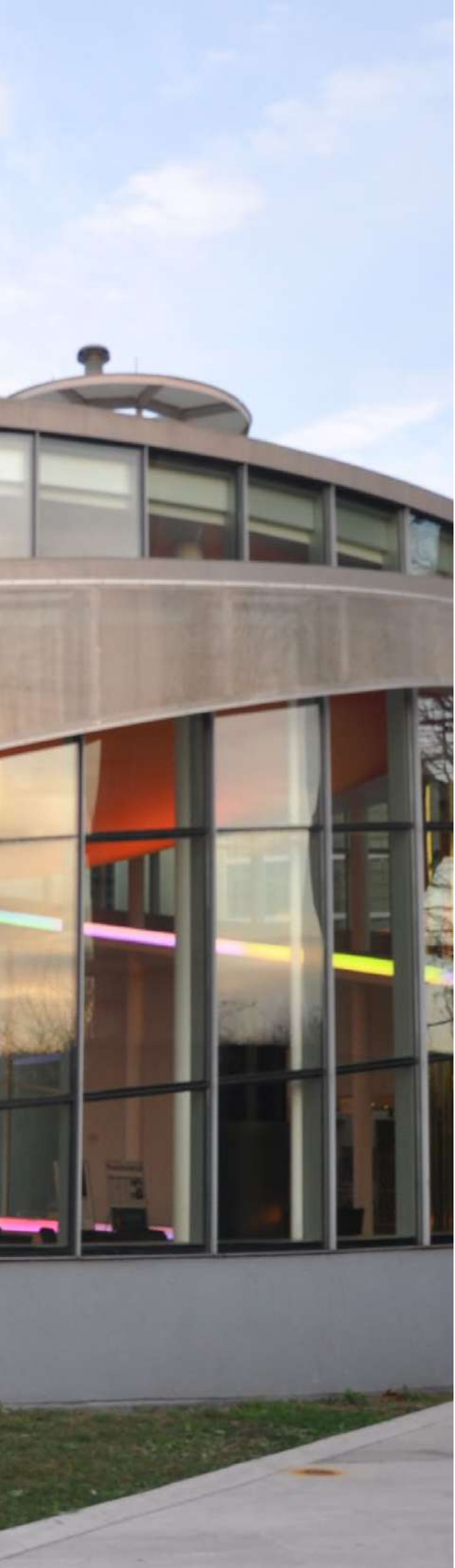
Jose Honrado has over 42 years of experience in mechanical engineering. As principal, Jose provides QA/QC on most projects. His specialization is in heating, ventilation and air conditioning. He has developed a distinct blend of strategic research and consulting experience in design and construction know-how. He has a BE in Mechanical Design from University of Philippines, and a Masters of Business Administration from NYU.

YATISH SHARMA, P.E., LEED AP, *ASSOCIATE PRINCIPAL, HEAD – ELECTRICAL GROUP*

Yatish Sharma, Associate Principal, heads Shenoy's Electrical group. He has over 13 years of experience in project management, design and construction administration of new and existing electrical systems for various buildings and facilities. He is proficient with NYC Electrical Codes, Building Codes, ADA and local codes. He is a registered PE and LEED AP BD&C, is NICET Level II FA Certified, and is a NYS Commercial Energy inspector. He holds a MS in Electrical Engineering from NJIT.

KAUSHAL TRIVEDI, P.E., LEED AP, *ASSOCIATE PRINCIPAL, HEAD – MECHANICAL GROUP*

Kaushal Trivedi, Associate Principal, leads Shenoy's Mechanical group. He has over 14 years of experience in project management, design engineering of Mechanical, HVAC and Plumbing Systems, and construction administration for several projects. He is experienced in design of boiler, air conditioning, and ventilation systems; underground and above ground mechanical distribution systems. His experience includes plumbing systems, including water, gas, storm, sanitary, site damage, fire preventive systems, sprinklers and standpipes. Kaushal has a MS in Mechanical Engineering from the University of Utah. He is a registered PE and LEED AP.



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