



John Marchiafava, PE, CGD, CEM

Chief Engineer, Mechanical Engineering



Background

Mr. Marchiafava has accumulated over 15 years of experience in all phases of consulting engineering including MEP/FP building systems and energy projects. His responsibilities include managing the commercial department's engineering team, reviewing detailed drawings and specifications, coordination with Owner and architect, site inspections, shop drawing reviews and construction interface and support for various commercial, educational, industrial and pharmaceutical projects. His specialties include: Energy Audits, Life Cycle Cost Analysis and Energy Feasibility Studies, LEED Analysis, Cost Estimation, Mechanical Systems Design including conventional and geothermal designs, Construction and Project Management.

Education

Bachelor of Science, Mechanical Engineering
Drexel University, Philadelphia, PA

Professional Licenses & Certifications

Professional Engineer licensed in Pennsylvania, New Jersey, Delaware, Maryland, Mississippi
Certified GeoXchange Designer, (CGD), Certified Energy Manager (CEM), Association of Energy Engineers

Affiliations

American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE),
Association of Energy Engineers (AEE), The Order of the Engineer, National Society of Professional Engineers, Refrigeration Service Engineering Society (RSES), International Ground Source Heat Pump Association (IGSHPA)

Select Project Experience

- **Holtec International Technology Campus, Camden, NJ:** Engineering Manager and Quality Control for design and construction of three major facilities at the Holtec International Technology Campus consisting of a 150,000 SF, 7-story Office Building, a 355,000 SF Manufacturing Facility and a 55,000 SF Warehouse. The Holtec International Technology Campus is LEED Certified Gold. Construction was completed in 2016.
- **Burlington County Courts & Admin. Complex, Mt. Holly, NJ:** Project management, energy auditing, design engineering and construction management for central plant and HVAC efficiency upgrades and lighting efficiency upgrades at the 342,000 SF Mt. Holly Complex. Construction was completed in 2014 at \$7.7 million.
- **McGuire Air Force Base, Wrightstown, NJ:** Engineering Manager and Lead Mechanical Engineer for base-wide boiler decentralization and chiller retrofit project inclusive of controls upgrades. Project required the installation of individual high-efficiency, boiler systems throughout almost 100 buildings on the base. Construction completed in 2012 at \$23.5 million.
- **PSE&G Hospital Carbon Abatement Program, Various, NJ:** Project management, energy auditing, planning, engineering and construction support for East Orange, Robert Wood Johnson Rahway, Robert Wood Johnson Somerset & Cooper Hospitals.
- **New Jersey Local Government Energy Audit Program, Various, NJ:** Directed, project managed and executed a state-initiated/NJBPU energy auditing program generating over 800 reports for over 45 million square feet of facilities.
- **Cherry Hill School District, Cherry Hill, NJ:** Project management, energy auditing, master planning, engineering and construction for the development and implementation of one of first State of New Jersey Self Perform Energy Savings Improvement Program projects for 19 schools. Construction was completed in 2016 at \$8.2 million.
- **Township of Gloucester and Black Horse Pike Regional School District, Gloucester, NJ:** Project management, energy auditing, master planning and design engineering. Development of "Shared Services" Self-Perform Energy Savings Improvement Program project which included work both at the municipal facilities and schools.
- **Radnor Middle School, Wayne, PA:** Project Manager and Lead Mechanical Engineer for the 195,000 SF, new construction, Radnor Middle School utilizing high energy efficiency, Geothermal Heat Pump Systems for comfort conditioning and snow melting. Project is Energy Star certified, LEED Certified Silver and distinguished as a Green Ribbon School. School has been operating since 2007 at \$48 million.