



Mayank Kamadi

Energy Engineer

Mayank Kamadi is an energy and environmental engineer with a Master of Science in Earth and Environmental Engineering from Columbia University and a Bachelor of Technology in Mechanical Engineering from Sardar Patel College of Engineering, India. Mayank brings extensive expertise in renewable energy systems and sustainable practices.



Mayank.Kamadi@HESconnect.com

EDUCATION

Columbia University

Master of Science in Earth and Environmental Engineering – 2023

Sardar Patel College of Engineering

Bachelor of Technology in Mechanical Engineering - 2021

RELEVANT EXPERIENCE

- Directed the design, implementation, and cross-functional coordination of energy storage systems, enhancing operational efficiency and ensuring compliance with FDNY regulations and NYC zoning laws
- Identified and leveraged energy incentive programs, to deliver cost-effective solutions for client properties while providing technical and administrative support for project tracking, client reports, and system optimization
- Conducted on-site environmental assessments and data collection to maintain and improve solar energy projects
- Designed a 60 kWp solar PV system, achieving a 13% increase in energy efficiency through precise engineering and optimization
 - Managed system evaluation, optimization, and procurement processes for solar PV systems
 - Enhanced energy efficiency and system performance through component selection and environmental assessments
- Conducted comprehensive energy audits for multifamily housing units, achieving a 25% reduction in annual energy consumption and annual savings
- Utilized eQUEST and Energy Plus to optimize energy systems for building projects, resulting in an 18% reduction in energy usage and additional annual savings while ensuring compliance with ASHRAE 90.1 standards.
- Engineered an innovative HVAC system prototype with integrated direct air CO2 capture, reducing CO2 emissions by 8%, identifying cost-efficiency targets, and conducted a life cycle assessment (LCA) to ensure sustainable optimization
- Developed sustainability report for New York startups, achieving a 15% reduction in carbon emissions and 20% in water usage by implementing net-zero strategies (SBTi), ESG frameworks (TCFD & SASB), and conducted detailed environmental impact analysis (GHG Protocol, LCA)

CERTIFICATIONS AND SKILLS

Certifications:

- Association of Energy Engineers (AEE)
 - Certified Energy Manager in Training (EMIT)
- Occupational Safety and Health Administration (OSHA)
 - 10-Hour General Industry

Skills:

- Software:
 - Adobe Acrobat, Ansys, AutoCAD, C++, CATIA, Design Builder, Energy Plus, eQuest, MATLAB, Microsoft Suite, Power BI, Python, Solidworks, Tableau, TRACE 700