

Santiago Vargas Borja

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Education

Manhattan University

B.S. Mechanical Engineering

May 2026

Riverdale, NY

- Dean's Award Recipient (Top 25% of Applicants)
- Sportsmen for Charity Endowed Scholarship Recipient
- Relevant Coursework: Thermodynamics, Fluid Mechanics I-II, Heat Transfer, Machine Design, Finite Element Analysis, Manufacturing Processes, Mechanical Vibrations, Mechatronics, Solar System Design and Energy Management

Experience

PJ Mechanical

Project Management Intern

May 2023 – Aug. 2025

New York, NY

- Supported MEP construction projects by coordinating schedules, submittals, technical documentation, and project deliverables in a consulting engineering environment.
- Reviewed mechanical drawings, specifications, and engineering documentation to ensure completeness and compliance with building systems project requirements.
- Collaborated with engineers, project managers, contractors, and field personnel to support project execution, field verification, and schedule adherence.
- Tracked project milestones and facilitated communication between engineering, management, and field teams across multiple concurrent building projects.
- Gained hands-on exposure to HVAC systems, piping systems, mechanical equipment installation, and energy efficient measures in commercial building projects.

Manhattan University

Mailroom Student Employee

Aug. 2025 – May 2026

Bronx, NY

- Processed and distributed hundreds of packages daily while maintaining accurate inventory and tracking records.
- Assisted management with employee scheduling, onboarding, and operational coordination.

Manhattan University

Tour Guide Student Employee

Aug. 2022 – Aug. 2023

Bronx, NY

- Represented the university during admissions events, orientations, open houses, and campus visits.
- Provided information to prospective students and families while maintaining a professional and welcoming environment.

Projects

U.S. Department of Energy Solar District Cup

Mechanical Engineering Team Member

Fall 2025 – Spring 2026

- Developed a theoretical implementation plan for a campus-wide sustainable solar energy system, applying building systems design principles and energy efficient measures.
- Evaluated campus infrastructure, land availability, and historical building constraints to determine MEP installation feasibility.
- Performed engineering analyses supporting mechanical system sizing, implementation planning, and long-term operational considerations.
- Collaborated with contractors and multidisciplinary engineering teams to develop installation cost estimates and investment projections for building projects.
- Served as liaison between mechanical and electrical engineering teams, coordinating technical presentations and construction documentation.
- Organized project deliverables and maintained compliance with competition requirements, producing detailed technical reports and one-line diagrams.

Technical Skills

CAD & Design Software: Revit, AutoCAD, Onshape, Abaqus

Engineering Analysis: Finite Element Analysis (FEA), HVAC Systems, Building Systems Design, Mechanical Design, Technical Documentation

Programming: MATLAB, Python, Orange Data Mining

Software: Microsoft Excel, Word, PowerPoint

Languages: English (fluent), Spanish (fluent)

Certifications: OSHA 30

Leadership & Activities

Delta Kappa Epsilon: Active Brother (Fall 2023 – May 2026)

Professional Organizations: SHPE (2023), ASME (2025), AIAA (2025)

Volunteer Service: NYC Buddy Walk Volunteer, NYC Breast Cancer Walk Volunteer