

# Jeffrey Laederach

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## Education:

**Manhattan University**, Bronx, NY

**GPA: 3.65**

*B.S. in Mechanical Engineering with Concentration in Applied Mathematics*

*Double Minor in Mathematics and Business*

Expected Graduation: **May 2027**

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## Honors/Awards:

- Manhattan University Trustee Scholarship
- School of Engineering Dean's Honor List

**Fall 2023 - Present**

**Fall 2023 - Present**

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## Work Experience:

**Emacx Systems, Inc., *Engineering Intern***, West Orange, NJ

**May 2024 - August 2024**

- Emacx Systems, Inc. is a real-time energy management software and technology company specializing in intelligent demand response and peak kWh load curtailment solutions for energy-intensive buildings.
  - Learned about Local Law 97 compliance for buildings 25,000 sq. ft. or more and how to utilize control systems and software automation to reduce/monitor GHG emissions and avoid costly penalties.
  - Primarily worked on developing a data analysis program with Python and Jupyter Notebooks to visualize and review energy trend data and savings metrics across numerous top clients.
  - Created network topology schematics, wired and configured electrical panels, and conducted building walkthroughs to prepare for system integrations with VFD's and BMS-controlled HVAC equipment.
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## Leadership Experience:

**Vexergy, *Founder***, Cortlandt Manor, NY

**December 2023 - Present**

- Started a cloud-based software platform providing "Data Analytics as a Service" for the Energy Sector.

**Manhattan University ASHRAE Club, *Treasurer***, Bronx, NY

**February 2024 - Present**

- Coordinated guest speaking event sponsored by Trane to provide insight into the Energy industry and organized fundraisers/events to increase student participation while also accounting for club funds.

**Manhattan University ASME Club, *Treasurer***, Bronx, NY

**April 2024 - Present**

- Managed the club budget, took inventory of supplies, and helped plan events, activities, and meetings.

**Cru (Campus Crusade for Christ International), *Youth Leader***, Bronx, NY

**April 2024 - Present**

- Led weekly Bible Study meetings to foster campus ministry at Manhattan University.

**Calvary Bible Church, *Volunteer***, Yorktown Heights, NY

**July 2021 - Present**

- Served as lead Guitar player for my local church worship team during Sunday Morning Services.
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**Memberships:** American Society of Mechanical Engineers & ASHRAE Bi-State Chapter

**2023 - Present**

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**Coursework:** Introductory Thermodynamics, Statics, Dynamics, Introductory Solid Mechanics, Materials Science, Applied Thermodynamics, Calculus I, II, & III, Differential Equations, Physics I & II, General Chemistry I, Introduction to Engineering, Introduction to Engineering Computation, Technical and Graphical Communication, Macroeconomics, Principles of Accounting I, Foundations of Data Science

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**Skills:** Excel/VBA, MATLAB, Python, SOLIDWORKS, Revit, Visio, Onshape, Jupyter Notebooks, C#, C/C++