

# MIA ANDREU

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## EDUCATION

**New York University** *Bachelor of Science, Mechanical Engineering*

Brooklyn, New York

**GPA:** 3.9/4.0

*Expected May 2027*

**Organizations:** Society of Women Engineers | Global Leaders and Scholars in STEM | American Society of Mechanical Engineers | National Charity League | American Institute of Aeronautics and Astronautics

**NYU Dean's List:** Two consecutive term GPAs of 3.4 or higher

2023 – 2025

## PROFESSIONAL EXPERIENCE

**WSP | Professional Engineering Consulting Firm**

New York, New York

*Mechanical Engineering Energy Intern*

*Jun. 2025 - Present*

- Conducted field research and engineering analyses that supported energy optimization in 3+ client projects
- Created CAD drawings and technical design reports to streamline client communication and project workflows
- Assessed environmental risks and integrated sustainable solutions aligned with LEED and ESG standards

**American Institute of Aeronautics and Astronautics at NYU**

New York, New York

*Secretary*

*Oct. 2025 - Present*

- Maintained records, managed internal communication, and ensured smooth chapter administrative operations

**Rogue Aerospace at NYU Tandon**

Brooklyn, New York

*Dynamics Team Member*

*Sept. 2024 – Jan. 2025*

- Engineered 3D-print and wooden fin prototypes, applying quantitative analysis to optimize flight stability
- Analyzed 8 fin configurations using Open Rocket simulations and hand calculations to optimize flight performance
- Contributed to a NASA Student Launch Initiative award-winning team, demonstrating precision engineering under competition deadlines

**Piedmont Service Group | HVAC Company**

Raleigh, North Carolina

*Energy Sustainability Systems Intern*

*Jun. 2024 – Aug. 2024*

- Supported energy audits and site walkthroughs, contributing to Investment Grade Audits for commercial clients
- Built Excel models to validate \$362K in projected energy savings, enhancing internal and client reporting accuracy
- Drafted Energy Savings Performance Contracts and capital expenditure documents, accelerating deal closures

**Housing Innovation in Revit**

Brooklyn, New York

*NYU Nick Russo First Place Award Winner*

*Sept. 2023 – Dec. 2023*

- Designed an 8-story LEED Platinum building to replace NYU Jacob's Academic Building using Revit
- Led architectural layout of 100 dorms, 18 classrooms, lecture halls, rooftop space, and full MEP systems
- Incorporated sustainability features: solar heat gain-reducing windows, smart LEDs, and rooftop vegetation
- Collaborated in a 3-person team to produce a CAD model, four presentations, and a final showcase poster

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Global Leaders and Scholars in STEM at NYU Tandon**

Brooklyn, New York

*Cohort 2025*

*Aug. 2024 – Present*

- Selected as 1 of 26 scholars from competitive academic and interview process
- Attended leadership & professional development sessions with UN speakers, growth coaches, and industry experts
- Enhanced intercultural fluency through a semester abroad at Politecnico di Milano and travel to 8 countries

**Durham Children's Initiative**

Durham, North Carolina

*Tutor and Volunteer with the National Charity League*

*Jun. 2022 – Jul. 2022*

- Led weekly STEAM Saturdays for 12 weeks, teaching 30 K-8 students through hands-on activities
- Designed and delivered 15 custom lesson plans to engage underserved youth in science and engineering concepts

## SKILLS & INTERESTS

**Skills:** AutoCAD | Solidworks | Autodesk Fusion 360 | BIM Revit | Java | Python | MS Project | Prototyping | 3D Printing | Microsoft Office Suite | Technical Writing | Data Analysis | Bluebeam

**Interests:** Weightlifting, Knitting, Crocheting, Hiking, Museums, Reading, Painting, Biking