

MIA ANDREU

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EDUCATION

New York University <i>Bachelor of Science, Mechanical Engineering</i>	Brooklyn, New York
GPA: 3.9/4.0	<i>Expected May 2027</i>
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
<i>Mechanical Engineering Energy Intern</i>	<i>Jun. 2025 - Present</i>
• 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
<i>Secretary</i>	<i>Oct. 2025 - Present</i>
• Maintained records, managed internal communication, and ensured smooth chapter administrative operations	
Rogue Aerospace at NYU Tandon	Brooklyn, New York
<i>Dynamics Team Member</i>	<i>Sept. 2024 – Jan. 2025</i>
• 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
<i>Energy Sustainability Systems Intern</i>	<i>Jun. 2024 – Aug. 2024</i>
• 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
<i>NYU Nick Russo First Place Award Winner</i>	<i>Sept. 2023 – Dec. 2023</i>
• 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
<i>Cohort 2025</i>	<i>Aug. 2024 – Present</i>
• 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
<i>Tutor and Volunteer with the National Charity League</i>	<i>Jun. 2022 – Jul. 2022</i>
• 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