

Aloyse Maille

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Junior undergraduate student at Cornell University in Mechanical and Aerospace Engineering

Work Experience

- Researcher at ZT Group, Cornell (September 2023 - Present)

- AFOSR sub-team.
- Qubits and resonators fabrication process design and implementation.
- Research on the impact of 2D-materials on phonon decoherence in quantum devices.
- Received the Summer 2025 Research Award funded by Boeing.

Work performed in the CNF cleanroom using the following technical skills: optical and e-beam photolithography processes, reactive ion etching, AJA sputter and AJA ATC 1800-HY tools for sputtering, ion milling and controlled oxidation, DC probe station and KLA P7 profilometer. Also trained on micro-bonding and PPMS tools in CCMR facility at Cornell.

- Summer Polo Coach Assistant, Cornell Athletics (Summer 2025)

Oversee and perform the training of the new varsity polo horses for the Fall season.

Academic Profile

- NASA L'SPACE Program (Spring 2025) - MCA Academy

Served as Lead System Engineer and Mission Outreach Officer for my team. Our mission task was to gain understanding on Venus and the interaction between its surface and atmosphere with the use of an aerobot system. Our team designed an aerobot system and its subsystems starting from the science objectives to the requirements, risks and TRLs.

- Cornell Engineering (2023 - Present) - Bachelor of Science

Mechanical Engineering with a focus on Aerospace (current GPA: 3.999).

- French Baccalaureate (2023) - Highschool : Fénélon Sainte-Marie (Paris, France)

Summa Cum Laude with jury's felicitations, English European section.

Athletics

- Cornell Varsity Polo Women's Team (September 2023 - Present)

- Cornell Taekwondo Club (September 2023 - Present)

- Horse-riding - Haras de Jardy Competition Team

Eventing: Bronze medal, French National Championships 2022. Show-jumping: Gold medal, French National Championships 2022.

Languages

- French - Native
- English - Bilingual proficiency
- German - Conversational (CECR B1/B2 certification)

Personal Skills

- Adaptability, problem solving and out-of-the-box thinking
- Teamwork, communication and leadership
- Determination and enthusiasm to learn
- Design (Procreate, Canva, CAD)
- Digital (Microsoft Office Suite and Google Workspace, Python, MATLAB)