

Hiba Assamaouat

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EDUCATION

New York University Abu Dhabi (NYUAD), Abu Dhabi, UAE

Aug. 2021 - May 2025

Bachelor of Science in Electrical Engineering

- Studies included a semester abroad in New York, a short-term stay at NYU Czech Republic, and a seminar in Paris
- **Relevant Coursework:** Electronics; Control Systems; Photonics; Communication Theory; Electromagnetics; Instrumentation; Embedded Systems; Object-Oriented Programming

Lycée Français International Théodore Monod (LFITM), Abu Dhabi, U.A.E.

Jun. 2021

French Baccalaureate, Summa cum laude ("Mention très bien")

EXPERIENCE

Wireless Research Lab | NYUAD

Nov. 2024 – Jun. 2025

Research Assistant

Abu Dhabi, UAE

- Reviewed & extracted around 10 papers on Synthetic Aperture Radar (SAR) image despeckling and super-resolution techniques, identifying Deep Learning (DL) approaches & architectures.
- Conducted thorough search of open-source and private dataset for super-resolution training.
- Collaborating with a PhD student to design and implement chosen DL architectures in Pytorch.
- Training and evaluating proposed models on the NYUAD High Performance Computing (HPC) cluster.
- Participated in the [6G Summit 2024](#) in Abu Dhabi, exchanging research insights on wireless communications and remote sensing technologies with keynote speakers.

Redal | REDAL VEOLIA

Jul. 2023

Electrical Engineering Summer Intern

Rabat, Morocco

- Conducted site visits to different types of electrical substations across the city, gaining insight into their design, operation, and maintenance.
- Collaborated with departmental leaders and the dispatching team to understand the coordination and management of power distribution networks.
- Assisted technicians from various departments in missions troubleshooting and repairing power distribution components in both urban stations and remote rural areas.

Plastic Recycling Lab | NYUAD

Oct. 2022 – May 2023

Research Assistant

Abu Dhabi, UAE

- Worked in affiliation with the global [Precious Plastic](#) community, following open-source principles in sustainable design and recycling practices.
- Contributed to the design and early development of a plastic recycling system aimed at converting HDPE bottle caps, collected through campus recycling, into 3D printing filament.
- Collaborated with team members to support project advancement, ensuring alignment with research goals and timelines.
- Organized on-campus tabling interventions to engage students, raise awareness about plastic recycling, and encourage participation in collection and outreach activities.
- Led lab tours for students and external visitors, presenting research progress and promoting awareness of the lab's sustainability efforts.

RELEVANT SKILLS

Frameworks & Development Tools: PyTorch, Simulink, Altium Designer, KiCad, VS Code, PlatformIO, ArduinoIDE, Fusion360, Git, LTspice

Programming: MATLAB, C/C++, Python, HTML, CSS, JavaScript, \LaTeX , VHDL

Languages: Arabic: *Native* | French: *Fluent* | English: *Fluent* | Spanish: *Intermediate*

Software: Microsoft Office, iMovie, Notion, Procreate

Hardware: Soldering, Surface-Mounted Device (SMD) Soldering, Circuitry, Arduino, AdaFruit Circuit Playground, AtMega32u4

ENGINEERING PROJECTS

Multi-Stage Peltier Module (TEC) Based Refrigerator | NYUAD

Feb. 2025 – May 2025

- Designed and built a fridge from scratch using Peltier modules instead of traditional compressors.

Electrocardiography (ECG) Printed Circuit Board (PCB) Design | NYUAD

Sep. 2023 – Dec. 2023

- Designed and fabricated PCB for ECG signal-reading, focusing on minimizing signal noise

**See all projects in portfolio file attached to the application submission*

LEADERSHIP EXPERIENCE

Student Government | LFITM

Sep. 2017 – Jun. 2021

Student Representative of the Middle and High School

Abu Dhabi, UAE

- Served as an elected representative on student councils for both middle and high school levels.
- Facilitated and organized student meetings, school events, and initiatives.
- Led student welfare efforts by conducting a school-wide survey on mental health and well-being, using the results to inform and support targeted initiatives.

Model United Nations (MUN) | LFITM

Dec. 2020 – Jun. 2021

Event Organizer and Vice-President, Security Council

Abu Dhabi, UAE

- Managed event logistics for MUNMO, a French-language Model United Nations conference bringing together delegates from across the Middle East.
- Prepared and distributed briefing materials and procedural documents to international participants.
- Served as Vice-President of the Security Council, facilitating debate and maintaining diplomatic protocol.

EXTRACURRICULARS

Intercollegiate Soccer | NYUAD Athletics

Sep. 2021 - May 2023

Took part in the NYUAD women's soccer team.