

Tony Sahyoun

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EDUCATION

Bachelor of Engineering in Computer and Communication Engineering(ABET accredited) (GPA 3.1)

08/2021 – present
Lebanon

Notre Dame University-Louaizy (NECHE accredited) ☞

PROFESSIONAL EXPERIENCE

FPGA Engineer

MultiLane ☞

06/2025 – 07/2025
Lebanon

Completed an 8-week internship working with Xilinx Zynq devices on FPGA-based designs. Developed and tested PWM generators, DMA transfers, BRAM-based systems, custom AXI-Stream IP, and a frequency counter project, gaining experience in Verilog, C programming, and hardware–software integration.

Software Development Shadowing

2023

Shadowed a professional software developer for a duration of one week, gaining insight into development, testing, and deployment processes. Observed the creation of testing scenarios and analysis of logged data for integration testing and acquired a basic understanding of penetration testing techniques.

SKILLS

Programming Languages

- **Introductory AI Course (Cisco & IBM, 10 hours):** Explored AI's history and its transformative potential. Covered how AI understands language and interprets images, along with an introduction to neural networks modeled after the human brain. Completed simulations that involved building and testing a machine learning model using IBM Watson Studio, and learned about AI ethics as well as strategies for navigating the fast-growing AI job market.
- **Python:** Proficient – Demonstrated through university projects, including developing games and creating interactive programs, which showcase practical applications in programming, problem-solving, and software development.
- **Java:** Competent – Learned through an online course and applied in building small applications with ongoing guidance and insights from my university professor.
- **C++:** Proficient – Gained experience in designing and implementing software solutions during academic projects.

Team work and Collaboration

- Active member in IEEE society
- Active Volunteer in Caritas

Leadership

- Previous Vice president and current treasurer of MIDADE - MIDADE stands for Mouvement Internationale d'Apostolat des Enfants (English: International Movement of the Apostolate for Children) - which is an organization that gathers around children and teaches different life skills and organize camps also, and I am part of the team that organizes this camp every year.

Communication skills

- Languages:
Arabic (native), English (limited working proficiency), French (elementary proficiency)

CERTIFICATES

Certificate of Participation in Introduction to Artificial Intelligence

Organized by IEEE in collaboration with ASME at Notre Dame University - North Campus held on Saturday, March 2, 2024

Certificate of Participation in Robotic Process Automation Workshop

Organized by IEEE Society at Notre Dame University - North Campus held on Saturday, April 2, 2023

Certificate of Participation in How to Code your first AI Model

Organized jointly by IEEE NDU NLC Branch and IEEE NDU held on Friday, November 10, 2023