

# FOUAD ATWI

Triple diploma student in search of an end-of-studies internship in the field of artificial intelligence, machine learning, and virtual environments

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## EDUCATION

### M2 in Computer Science – Intelligent, Interactive and Autonomous Systems | 2021 - 2022

UBO, ENIB, IMT Atlantique, ENSTA Bretagne

### Engineering Diploma – General Engineering | 2020 - 2022

ENIB (Erasmus+ Scholarship)

### Engineering Diploma – Electrical and Electronic Engineering - Industrial Computing | 2016 - 2022

Lebanese University

## WORK EXPERIENCE

### Internship for the development of a multi-station LoRaWAN application | 02/2021 - 06/2021

CG-WIRELESS (Lannion, France)

- Deployed and integrated a private LoRaWAN network in a Docker environment
- Created a multithreaded Docker Python server to link the system using gRPC and SQL
- Modified the web interface using JavaScript to fit the requirements of the new system

### PLC training internship | 07/2019 – 10/2019

Municipality of Ghobeiry (Beirut, Lebanon)

- Ladder, instruction list, grafcet. Master/Slave. AC/DC motors. Sensors. Hydraulic and pneumatic systems

## SKILLS

**Artificial Intelligence (AI) and Machine Learning:** Tensorflow, Keras, Scikit-learn, PyTorch, OpenCV, Mediapipe

**Programming languages:** Python, C#, C++, C, Docker, LabVIEW, MATLAB, Java, VHDL, JavaScript

**Tools:** Git, UML, Object-oriented Programming, Data structures

**Protocols:** gRPC, MQTT, LoRaWAN

**Database:** MySQL, PostgreSQL

**Virtual environments:** Unity, Interactive, collaborative, autonomous agents

**Robotics:** FreeRTOS, ROS

**Computer Aided Design (CAD):** SolidWorks, AutoCAD, Cura, ADS, Eagle, Proteus

**Controllers, microcontrollers, microprocessors, and embedded systems:**

STM32, Raspberry Pi, NXP, Arduino, FPGA, x86, PIC18, 8085, PLC, MyRIO

## PROJETS

Most projects can be found on my [GitHub](#) page

### Interactive machine learning robot

Generated a dataset and implemented a supervised deep learning model to detect arm gestures of a robot using computer vision. Deployed the model on another robot to mirror the movement.

## CERTIFICATES

**INFINITI Engineering Academy finalist** – INFINITI and Renault F1 team | 2019

**IEEE Xtreme 10 to 14** – IEEE Programming Competition | 2016 – 2020

**LabVIEW Associate Developer CLAD** – National Instruments | 2017

**CCNA 1** – Cisco Networking Academy | 2019

**Driver's permit A, A1 et B** | 2016

## ACTIVITIES

**Active IEEE member for 6+ years:** Previously president, vice president and secretary

**Hobbies:** Music (Guitar and Kalimba), Reading, Swimming

## LANGUAGES

**English** – Bilingual (C1 TOEIC 980/990) | **French** – Current | **German** – Current (A2) | **Arabic** – Native