



Mohamed Amine Bounab

Passport: YB6526715 | **Date of birth:** 30/11/2002 | **Place of birth:** Ouarzazate, Morocco |

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WORK EXPERIENCE

FREELANCER – MOROCCO

HYDRONIC HEATING SYSTEM OPTIMIZATION CONSULTANT – 01/2025 – 05/2025

- Helped optimize dorm's hydronic heating system.
- Ran simulations using the Transfer Function Method.
- Created AutoCAD MEP diagrams for a better system layout.

NATIONAL OFFICE OF AIRPORTS – MARRAKESH, MOROCCO

ELECTRONICS ENGINEER INTERN – 06/2024 – 11/2024

- Redesigned the airport's Baggage Handling System.
- Integrated machine learning techniques (e.g., signal pattern recognition)
- Conducted comparative performance analyses between photocell and RFID systems.

ACWA POWER | NOMAC – OUARZAZATE, MOROCCO

INSTRUMENTATION AND CONTROL ENGINEERING INTERN – 06/2023 – 08/2023

- Participated in preventive maintenance and functional testing of control valves, transmitters, and actuators.
- Authored a step-by-step user manual for the VBA-based data recording system.
- Designed and implemented automated data recording templates.
- Conducted hands-on training sessions for instrumentation technicians on proper use and calibration procedures of reflectometers.

AL AKHAWAYN UNIVERSITY ENGINEERING SCHOOL – IFRANE, MOROCCO

TEACHER ASSISTANT AND GRADER – 01/2023 – 05/2023

- Graded exams, quizzes, and lab reports for chemistry courses.
- Maintained accurate grading records and student progress.
- Supported professors in course preparation and evaluation.

AL AKHAWAYN UNIVERSITY ADMISSIONS OFFICE – IFRANE, MOROCCO

STUDENTS AMBASSADOR – 01/2022 – 05/2022

- Represented the university at high school forums and to prospective students, parents, and visitors, developing strong communication and leadership skills.

EDUCATION AND TRAINING

09/2020 – 12/2024 Ifrane, Morocco

BACHELOR'S DEGREE IN GENERAL ENGINEERING WITH A THEMATIC AREA IN MECHATRONICS Al Akhawayn University in Ifrane

Website <https://aui.ma/> | **Level in EQF** EQF level 6

10/2024 – 12/2024 Online, United States

WEB DESIGN AND USABILITY ONLINE COURSE Cambridge College

Website <https://www.cambridgecollege.edu/>

Website <https://www.vsb.cz/en>

PUBLICATIONS

2023
[Blockchain-Enabled Edge Computing and Sensor Integration for IoT-based Smart Grid Systems – Implementation and Energy Management: Morocco Case Study](#)

Publisher: IEEE

PROJECTS

09/2022 – 01/2023
Smart Pellet Stove | AVR ATMEGA 32

Smart pellet stove controlled by AVR ATmega32 for automated heating, temperature regulation, and fuel efficiency.

01/2021 – 05/2021
Impact of AI Akhawayn University on Ifrane’s Economy | Python (Data Analysis)

Analyzed AUI’s economic impact on Ifrane using Python for data collection, cleaning, and visualization.

LANGUAGE SKILLS

Mother tongue(s): ARABIC

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
FRENCH	C2	C2	C1	C1	C1
ENGLISH	C2	C2	C1	C1	C1
SPANISH	A1	B2	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Hard Skills

Blockchain | Arduino | Linux | Solidworks software | Raspberry Pi 3 (Good familiarity) | Revit | Auto CAD | Cloud Computing | Scada | Anylogic | Mechanics | Good programming skills with: Python, C++, Arduino IDE, MATLAB | OMNeT++ | Data Analysis | ANSYS Explicit Dynamics (Good)

Soft Skills

Effective Communication | Leadership | Attention to Details | Project Management | Team Collaboration | Time Management | Adaptability | Problem Solving

HONOURS AND AWARDS

2021
President’s List – AI Akhawayn University

President’s List – 4.0 GPA | Recognized for academic excellence.

HOBBIES AND INTERESTS

Aviation, Tennis, Traveling, Taekwondo, Piano, Cooking