

Salah-Eddine MAIMOUNI

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Generalist Engineering Student (Electromechanical Engineering)
Specialization: Global Performance Management (2PG).



Currently pursuing a **double degree** between **Arts et Métiers ParisTech (ENSAM Metz)** and **ENSAM Casablanca (2024–2026)**, I am actively seeking a **12-month apprenticeship or professional internship (2025–2026)** in one of the following fields:
Electrical / Electrotechnical Engineering, Software & Data Development (Python, Big Data, Web, Android), or Industrial & Supply Chain Optimization.

Technical Skills

- **Programming / Data Science:** Python (pandas, numpy, matplotlib, scikit-learn, SQL)
- **Machine Learning:** Regression, classification, supervised models, PCA, genetic algorithm, Neural networks
- **Signal Processing:** Spectroscopy analysis, FFT, time-series data, sensor modeling
- **Modeling & Design:** MATLAB, Proteus, AutoCAD, Schemaplic, CATIA V5, TIA Portal, Automation Studio, EcoStruxure, CANECO BT, 3DEXPERIENCE
- **Office Suite:** Word, Excel, PowerPoint, Access (advanced VBA macros)

Languages

- **Arabic:** Native
- **French :** Fluent
- **English :** Advanced (B2+)
- **Spanish :** Beginner

Strengths (AssessFirst)

- Applied creativity
- Methodical organization
- High adaptability
- Autonomy & rigor
- Team spirit

Interests

- Music: classical guitar practice
- Sports: football, swimming

Certifications

- Python Essential 1 & 2 [Python Institute]
- Small business skills [Alison]

Education

- **Arts et Métiers ParisTech – ENSAM Metz:** — *Generalist Engineer* **2024–2026**
Moral Reference: bertrand.krauser@ensam.eu Tél : +33355004039
M. KRAUSER Bertrand — *Professor of Humanities and Social Sciences & France-Morocco Coordinator of the professional support program for students.*
- **ENSAM Casablanca:** Electromechanical Engineering Program. **2022–2024**
- **BTS in Electrotechnics :** Technical High School Mehdi Ben Barka, Oujda. **2020–2022**

Professional Experience

- **Electrical Engineering Intern – ONEE (Electricity Branch)**
Jerada, Morocco — July–August 2024
 - ✓ Technical analysis and performance calculations of a **350 MW thermal power plant** following **ASME PTC 46** standards.
 - ✓ Evaluation of overall plant efficiency and subsystem operation.
- **Electromechanical Maintenance Intern – ONEE (Water Branch)**
Jerada, Morocco — July–August 2023
 - ✓ Preventive and corrective maintenance of pumping stations.
 - ✓ Electrical and mechanical sizing of pumps, switchboards, and hydraulic networks.
 - ✓ Drafting of single-line diagrams and electrical layouts.
- **IT Maintenance Intern – National Laboratory of Digital Resources**
Rabat, Morocco — July 2021
 - ✓ Diagnosis and repair of PCs, monitors (HDMI/VGA), printers, and other peripherals.
- **Smart Home – IoT & AI (ESP32, Arduino, Raspberry Pi, Linux Server)**
ENSAM Casablanca – 2022
 - ✓ Smart home prototype integrating IoT sensors, **voice control via AI API**, and **Home Assistant** supervision for automation.
 - ✓ Continuously improved project originating from BTS final thesis.
 - ✓ Using AI API chatgpt for voice control.
- **FlowShop Optimization Software – Python (Tkinter GUI)**
ENSAM Casablanca – 2023
 - ✓ Development of a Windows-based **FlowShop scheduling tool** using custom Tkinter GUI, solver models, and **Gantt chart visualization**.
- **Mixed Reality Application – CETIM (Unity, C#)**
ENSAM Metz – 2024
 - ✓ Development of a **MR application for Meta Quest 3** integrating 3D models, immersive interaction scripts, dual user interfaces (admin/viewer), and scene recording.