

# AYOUB MAHDOUDOU

## Industrial Engineer

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### PROFESSIONAL PROFILE

State Engineer in Industrial Engineering, focused on **Business Intelligence, Supply Chain, industrial digitalization and process improvement**. Experienced in designing **Power BI dashboards**, automating data flows and developing performance monitoring solutions for industrial and aeronautical **MRO-CAMO** environments. Hybrid profile combining data analysis, operational understanding, business coordination and process optimization.

### CORE SKILLS

**BI & Data:** Power BI, DAX, Power Query, Advanced Excel, SQL, Python, KPIs, interactive dashboards.  
**Digitalization & Automation:** ADS Software MRO, Python/pandas, openpyxl, multi-source integration, ETL.  
**Supply Chain & MRO-CAMO:** Purchasing, logistics, maintenance, airworthiness, WO/PR tracking, flight hours monitoring.  
**Performance & Project Management:** VSM, Lean Management, Six Sigma/DMAIC, process mapping, business needs analysis, KPI definition, cross-functional coordination, change management.

### EDUCATION

**Higher School of Textile and Clothing Industries — ESITH** 2023 – 2026  
*State Engineering Degree in Industrial Engineering — Business & Data Management Track*  
**Preparatory Classes for Grandes Écoles — CPGE** 2020 – 2023  
*Industrial Technology and Sciences — CPGE Omar Ibn Abdelaziz, Oujda*  
**Technical Baccalaureate STM** 2020  
*Mechanical Science and Technology — Ibn Al Haytam High School, Fez*

### PROFESSIONAL EXPERIENCE

**HELICONIA Group** Mar. 2026 – Jul. 2026  
*Final Year Project — MRO-CAMO Supply Chain Digitalization & Digital Twin*

- Digitalized **MRO-CAMO** performance monitoring for a fleet of **15 aircraft**: maintenance, airworthiness, purchasing, logistics and operational availability.
- Led scoping meetings and brainstorming workshops with **Supply Chain, Maintenance, CAMO and Airworthiness** teams to understand business needs and define priority KPIs.
- Developed **3 Digital Twins** and **9 Power BI dashboards** with secured access using **Row-Level Security (RLS)** according to departments and user profiles.
- Automated data processing using **Python/pandas**: data cleaning, consolidation, normalization and cumulative flight-hours calculation.
- Developed a business logic engine using **Flask + JSON API** to automate PBH cost calculation, aircraft-level data retrieval and LHD report generation via **openpyxl**.
- Consolidated data from **ADS Software** and **Smartsheet**, reducing manual search and cross-checking time from approximately **3 hours/day** to a centralized consultation in **a few seconds**.

**MFI Group** Jul. 2025 – Sept. 2025  
*Internship — Performance Analysis and Process Optimization*

- Developed analytical dashboards to centralize commercial performance indicators and facilitate reporting.
- Mapped processes using VSM and automated data flows to improve the availability of management information.

**Compagnie Industrielle de Bonneterie — CIB** Apr. 2025 – Jun. 2025  
*Internship — HR Reporting and Data Analysis*

- Designed an interactive HR dashboard to centralize workforce monitoring indicators.
- Analyzed and structured HR data to support planning and decision-making.

**MARISA** Jul. 2024  
*Industrial Observation Internship*

- Observed production flows, Lean practices, operational data, and ISO 9001/14001 compliance requirements, while gaining an understanding of the complete production cycle from raw material to finished product ready for delivery.

### CERTIFICATIONS

**Microsoft:** Power BI Data Analyst Professional Certificate 2026  
**Macquarie University:** Excel Skills for Business Specialization 2026  
**Python / DataCamp:** Python Data Fundamentals 2025  
**Meta:** Introduction to Databases for Back-End Development 2024

### LANGUAGES & PROFESSIONAL STRENGTHS

**Languages:** Arabic native, French fluent, English professional, Spanish beginner.  
**Strengths:** Analytical thinking, autonomy, rigor, initiative, field adaptability, project-based teamwork.