



# Hedhili Mohamed Ali

## Mechatronics and Automation Engineer & Technician in mechanical engineering

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Address : Monastir,

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Birthday :

11/12/1999

I'm engineer specializing in mechatronics and automation. I hold a diploma as a technician in industrial maintenance and have gained extensive experience through numerous practical internships. I excel in computer-aided design (CAD), 3D prototyping and printing, as well as mechanical maintenance. Known for my adaptability to new technologies, I possess strong problem-solving skills, a pronounced team spirit, a great capacity for rapid learning, and a constant commitment to continuous learning and community initiatives.

### Professional Experience

#### Production Responsible Engineer – Pro-Meuble Métallique

- Supervision and management of daily production operations of safes.
- Supervision and management of the manufacturing processes of torsion and bending machines.
- Production planning and monitoring to meet deadlines and quality requirements. August 2025 - now
- Design of safes, hinges, and large-scale metal projects. Monastir, Tunisia
- Coordination with technical, maintenance, and logistics teams.
- Implementation and monitoring of quality control throughout the manufacturing process.
- Ensuring compliance with safety and quality standards.
- Continuous improvement of manufacturing processes and productivity optimization.
- Monitoring laser cutting, welding, assembly, and painting operations.
- Programming plastic injection molding machines and ensuring the production of suitcases and plastic products.
- Setting injection parameters, monitoring production cycles, and troubleshooting technical issues.
- Quality control of plastic parts and optimization of production efficiency.

#### Technical university of Sofia, final internship

- Performed Diesel engine modeling using AVL BOOST.
- Analyzed the impact of pilot and post injections on combustion behavior and emissions. April 2025 – July 2025
- Studied Common Rail injection behavior and spray/evaporation characteristics. Sofia, Bulgarie
- Modeled and evaluated turbocharger performance. <https://tu-sofia.bg/?lang=en>
- Interpreted simulation results to optimize injection timing and combustion efficiency.

#### TUNISAIR Technics, Professional internship

- Training on Airbus and Boeing aircraft. July 2024 – August 2024
- Aircraft repair. Monastir, Tunisia
- Daily aircraft inspection. <https://www.tunisairstechnics.com/>

- Improvement of the clogging detection circuit for the filter at the level of the INTEGRATED DRIVE GENERATOR of the Boeing 737.

Januray 2022 - June 2022

### **SARTEX Group, Final internship**

Ksar Hellal, Monastir, Tunisia

- Study, sizing, design, and realization of a mixing bucket.

<https://sartexgroup.com/fr/accueil/>

### **HUTCHINSON TUNISIA SARL, TECHNICIAN INTERNSHIP**

- Observation and control of the production.
- Tasks in the methods office.
- Design of parts and realization using 3D printing.
- Study, design, and creation of the handle hand taping machine.

August 2021 - September 2021

Sousse, Tunisia

<https://www.hutchinson.com/fr>

### **Introductory internship at the Sahel mechanical workshop (AMS)**

January 2020 – February 2020

- Analysis of existence and observation.
- A deep knowledge of all purely mechanical machines and mechanical processes.

Sousse, Tunisia

<https://www.ams-entreprise.com/>

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## **Academic pathway**

- **EPI POLYTECHNIC SOUSSE**

Mechatronics and Automation Engineering

September 2023 – July 2025

- **HIGHER INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY OF KSAR HELLAL**

Bachelor's degree in Mechanical Engineering

September 2019 – June 2022

- **HIGH SCHOOL OF MONASTIR**

Technical baccalaureate

June 2019

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## **CERTIFICATIONS**

- SAMPLE CSWA
- CSWP (design professional)
- SAMPLE CSWP
- CSWPA-SU (surfacing)
- CSWA (Mechanical Design)
- CSWPA-DT (Advanced Drawing Tools)
- CSWPA-SM (Sheet Metal)
- CSWPA-WD (Weldments)

## **Languages**

- **Arabic: native**
- **English: advanced**
- **French: advanced**
- **Bulgarian: basic**
- **Dutch: basic**

