
MOHAMMED ECH-CHAIBI

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PROFESSIONAL SUMMARY

A skilled automation and robotics specialist with expertise in Allen-Bradley Studio 5000, and Mitsubishi RT Toolbox/Melfa Basic. Proficient in programming languages such as Python, C/C++, alongside a strong foundation in process optimisation and industrial workflows. Demonstrates advanced capabilities in data analysis and Excel, complemented by problem-solving, analytical thinking, and teamwork skills. Committed to enhancing operational efficiency through innovative solutions and seamless integration of technology.

WORK HISTORY

Automation engineer, 12/2025 - current

University of Limerick - Limerick

- Developing an automated hydroponic platform using a 6-axis robot, PLC control and microcontroller sensor monitoring.
- Designing the end effector and programming robot sequences for plant handling, calibration and safe operation.
- Implemented basic OpenCV vision processing for pot detection and fine alignment.

Automation engineer, 11/2025 - 12/2025

University of Limerick - Limerick

- Developed FDS and DDS documentation in alignment with GAMP V engineering lifecycle.
- Structured PLC code for Rubik's cube inspection machine respecting safety requirements.
- Designed HMI for operator control and system monitoring

Intern - manufacturing engineer, 04/2025 - 09/2025

Flying Whales - Bordeaux

- Defined the helium filling sequence during the assembly of the airship.
- Participated in defining and optimizing manufacturing processes.
- Applied 3D modeling skills to support design and prototyping of industrial components.

Intern - Lean Manager, 05/2024 - 09/2024

SITI TEA - Marrakech

- Industrialization of innovative processes to ensure precision and efficiency during assembly.
- Identify bottlenecks and propose workflow optimization.

Research And Development Specialist, 10/2023 - 03/2024

INGEROP - Lille

- Conducted product lifecycle analyses to identify reuse and recycling opportunities.
- Developed practical, eco-friendly solutions to enhance resource efficiency in large civil engineering

projects.

SKILLS

- Automation & PLC:
 - *Allen-Bradley Studio 5000.
 - *Siemens TIA Portal.
 - *State machines & structured sequence design.
 - *Emergency stop logic, safety interlocks.
 - *Sensor/actuator control&wiring basics.
- Robotics:
 - *Mitsubishi RT Toolbox/Melfa Basic
 - *Robot calibration.
 - *Robot-PLC communication.
 - *3D Modeling.
- Programming: Python,C/C++,Java.
- Basic networking.
- Process Optimization & Industrial Workflows.
- Data Analysis & advanced excel.
- Soft Skills:
 - *Problem-solving
 - *Fast learning & adaptability.
 - *Analytical Thinking.
 - *Teamwork & coordination.

EDUCATION

Master of engineering: Mechatronics, 09/2025 - 08/2026

UNIVERSITY OF LIMERICK - LIMERICK

- Coursework in robotics,automation,control systems, ambedded systems, and machine vision.
- Practical work with Mitsubishi industrial robots, PLCs, sensors and system integration.

Engineering Degree: Industrial Engineering, 09/2023 - 08/2025

IMT NORD EUROPE - Douai

- Focus on industrialisation, manufacturing systems, process optimisation and 3D modeling.
- Coursework in mechanical design, operations research, systems engineering and project management.
- Hands-on projects in automation, production flow analysis and prototyping.

CPGE: Engineering, 09/2021 - 09/2023

Ibn Timiya - Marrakech

- Two-year intensive preparatory programme focused on advanced mathematics,physics,and engineering fundamentals .

CERTIFICATIONS

***Lean Six Sigma Green Belt certified**, with practical experience applying process-improvement tools.

*Completed a **MOOC in Project Management**, developing skills in planning, scheduling, and risk management.

LANGUAGES

French

Fluent

English

Fluent

Spanish

Elementary

HOBBIES AND INTERESTS

- Chess
- Cooking
- Tennis