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# MOHAMMED ECH-CHAIBI

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## PROFESSIONAL SUMMARY

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Junior Automation & Mechatronics Engineer with skills in PLC programming, industrial robotics, embedded systems and computer vision. Experienced in designing automation sequences, developping HMI/PLC interfaces and producing engineering documentation (GAMP V). Strong foundation in control logic, system integration and industrial process optimization. Motivated to contribute to smart manufacturing and advanced automation projects.

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## WORK HISTORY

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**Automation engineer**, 12/2025 - current

**University of Limerick** - Limerick

- Developping 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.

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## SKILLS

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- 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.

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## EDUCATION

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**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 .

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## CERTIFICATIONS

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\***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.

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## LANGUAGES

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**French**

Fluent

**English**

Fluent

**Spanish**

Elementary

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## HOBBIES AND INTERESTS

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- Chess
- Cooking
- Tennis