

JOSEPH CHAHINE

Mechatronics Engineer

+961 81 446 146

jaymchahine@gmail.com

[Portfolio Josephmchahine.online](https://josephmchahine.online)

Kfar abida, Batroun, LB

SUMMARY

Mechatronics Engineer with hands-on experience in mechanical design, automation, electronics, prototyping, and project execution. Experienced in designing and building custom engineering solutions including CNC-based systems, robotics prototypes, thermal control devices, and renewable energy concepts. Also brings strong operational and leadership experience through business management, client coordination, and end-to-end project delivery. Able to turn technical ideas into practical, functional solutions with real-world application.

EXPERIENCE

Mechatronics Engineer

[Why not.ph](https://www.whynot.ph)

2022 - Present Beirut, Lebanon

Lead Engineer / Freelance

Designed and built custom automated machinery, CNC-based systems, robotics prototypes, and thermal control devices for client and prototype applications.

- Developed a charcoal-free electric heating head for hookah applications, integrating microcontroller-based temperature control powered by a high amperage battery system.
- Led the design and build of a robotic arm with joystick-controlled servos and integrated feedback systems for precision tasks.
- Managed all phases of projects from concept, CAD modeling, and prototyping to client delivery and installation.
- Helped with technical consulting on mechanical optimization, energy efficiency, and electrical safety improvements for small businesses.

F&B Management

[Almaza bay, Merhcak, Aishti, Darling society...](#)

2016 - 2022 Lebanon

Helped manage F&B operations and guest experiences at prestigious and high-traffic places, including Almaza Bay (luxury seaside resort), Darling Society (trendy high-end restaurant/lounge), and Mechak Aal Baher (popular large-scale beachside dining destination), and more.

- Directed daily operations, including menu planning, supplier negotiations, staff training, and quality control, ensuring consistent customer satisfaction and profitability.
- Managed budgets, inventory, and procurement, optimizing costs without compromising quality.
- Developed SOPs for service efficiency, hygiene compliance, and guest experience improvement.

EDUCATION

B.E. in Mechatronics Engineering

[University of Balamand](#)

2025 Koura, Lebanon

LANGUAGES

Arabic Native

French Intermediate

English Proficient

Spanish Beginner

TECHNICAL SKILLS

LEAN Manufacturing CNC Milling

CAD (SolidWorks, Autocad)

Python CSS Java C++ MATLAB

Automation Software Development

ENGINEERING SKILLS

Mechanical Design Prototyping

Precision Alignment Systems

Design of Experiments Data Analysis

Machine Learning Root Cause Analysis

PROFESSIONAL SKILLS

Communication Skills Team Leadership

Project Management Problem Solving

Project Scheduling

STRENGTHS

Leadership & Team Management

Project Planning & Execution

Problem-Solving & Critical Thinking

Strategic Business Development

Client Relationship Management

CERTIFICATIONS

NI ELVIS II+ & LabVIEW Systems Training
University of Balamand

PLC Programming & Industrial Automation Certification
University of Balamand

SolidWorks Professional Training / CSWA - CSWP
Lebanese American University

Cisco Networks Certification
University of Balamand