

# JOSEPH CHAHINE

## Mechatronics Engineer

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[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.phi](https://www.why-not.phi)

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.

### General Manager

[Auberge de Roger](https://www.auberge-de-roger.com)

2022 - Present Kfar abida, Lebanon

Manage operations for five uniquely designed industrial-themed guesthouses located directly on the sea, ensuring high-quality guest experiences and facility maintenance.

- Implemented a centralized booking and calendar management system integrating Airbnb and Booking.com listings to streamline reservations and avoid double bookings.
- Increased occupancy rates by over 35% through targeted social media campaigns, loyalty programs, and strategic partnerships with local tourism operators.
- Designed and executed cost-effective maintenance plans, including structural and aesthetic upgrades to enhance guest satisfaction and reduce operational costs.
- Developed promotional materials and high-visibility street posters to drive walk-in bookings and local awareness.

## 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

# EXPERIENCE

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## 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

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## B.E. in Mechatronics Engineering

[University of Balamand](#)

 2025  Koura, Lebanon

# LANGUAGES

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**Arabic**   
Native

**French**   
Intermediate

**English**   
Proficient

**Spanish**   
Beginner