

Anthony Chamieh

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Professional Profile

Industrial maintenance technician and technical project lead with five-plus years of hands-on experience spanning CNC machinery, automated production systems, industrial electrical work, electronics, and embedded systems. At Douaihy pour le Bois, progressed from hands-on maintenance into multi-site responsibility, leading maintenance and projects across 5+ locations and serving as the sole Lebanese-side technician during commissioning of a major wood-panel production line with the Chinese engineering team. Bosch-trained in automotive electrical and electronics diagnostics, with additional component-level repair and oscilloscope-based fault-isolation experience. Building toward roles combining industrial systems, automation, maintenance strategy, diagnostics, energy efficiency, and technical project leadership while pursuing a B.Sc. in Physics. EV and hybrid diagnostics remains a complementary specialization because it brings mechanics, electronics, and software together in an emerging field in Lebanon.

Professional Experience

Maintenance Technician & Project Lead | Douaihy pour le Bois, Zouk Mikael / Multi-site Sep 2025-Present

- Lead maintenance operations across 5+ company sites as part of a two-person maintenance team, carrying responsibility for the electrical and mechanical uptime of CNC machinery and production systems.
- Expanded from daily fault response into technical project leadership, coordinating installation, commissioning, system upgrades, and multi-site maintenance priorities.
- Selected as the sole Lebanese-side technician embedded with the Chinese engineering team commissioning one of Lebanon's largest wood-panel production lines in Amioun; handled electrical wiring, control-system integration, and mechanical fit-out on site.
- Diagnose and resolve complex electrical, mechanical, and automation faults across equipment including CNC nesting and labeling systems, clamping machinery, production-line assets, and service-center equipment to minimize downtime.
- Lead multiple in-house technical projects from planning and installation through commissioning and operational handover.

Technician & Project Lead | Robot Pi Shop, Fanar, Beirut May-Aug 2025

- Owned end-to-end technical projects from concept through prototyping, fabrication, and delivery for clients across education, industry, and research.
- Integrated mechanical fabrication (3D-printed and machined parts), electronics, and firmware into deliverable products.
- Managed in-house 3D printing production for retail products sold in-store.
- Performed soldering, PCB prototyping, and embedded-systems development across diverse applications.

Independent Diagnostics & Repair Specialist | 2020-Present

- Diagnosed and repaired 250+ solar inverters (on-grid, off-grid, hybrid, and industrial), including DEYE, Growatt, and Felicity, with full operational restoration in each case.
- Resolved faults on a personal vehicle that multiple repair shops could not diagnose, using a personal 70 MHz / 250 MSa/s oscilloscope for live signal analysis and component-level fault isolation.
- Repaired diverse electronic equipment including professional audio systems and sound mixers.
- Sustained a profitable diagnostics practice through Lebanon's economic crisis based on accuracy, throughput, and client trust.

Earlier Industrial Experience

Electrical Panel Assembler & Mechanic | Robotics Company, Georgia Aug 2024

- Assembled industrial-grade electrical panels from technical schematics.
- Performed precision mechanical fabrication, including drilling and milling, for robotic-system components.
- Collaborated with engineering teams to integrate electrical and mechanical subsystems for automation projects.

Industrial Electrical Systems Manager | Family Factory, Ferzoul 2019-2023

- Oversaw electrical maintenance and control-panel operations across industrial production lines.
- Designed and commissioned a 37 kWp solar PV system, reducing operational energy costs and improving energy independence.
- Led troubleshooting and repair of industrial automation equipment to ensure consistent output.

Teaching Experience

STEM Instructor - Mathematics, Physics & Arduino | Local Educational Center, Zahle

- Delivered private instruction in mathematics, physics, and Arduino-based embedded systems for secondary students.
- Combined theory with hands-on project work to reinforce conceptual understanding.

Technical Skills

Industrial systems: CNC and automation-system maintenance and repair; electrical and mechanical fault diagnosis; installation, commissioning, and system upgrades; maintenance planning; industrial control-panel assembly and schematic interpretation.

Selected production equipment: Excitech E4 CNC nesting and labeling systems; Biesse Cosmo clamping equipment; wood-panel production-line systems; laboratory and service-center machinery.

Electrical and electronics: Circuit analysis; PCB design and repair; SMD and through-hole soldering; component-level fault isolation; solar PV system design, installation, and maintenance.

Embedded systems: Arduino, Raspberry Pi, MicroPython, microcontroller programming, sensor integration, and firmware prototyping.

Automotive diagnostics: Bosch-trained automotive electrical and electronics diagnostics; oscilloscope-based signal analysis; end-to-end electrical, electronic, and component-level troubleshooting.

Mechanical fabrication: Drilling, milling, TIG/MIG welding, basic lathe operations, 3D printing, and assembly.

Tools & Platforms

Test equipment: Oscilloscopes (personal: 70 MHz / 250 MSa/s), multimeters, power analyzers, soldering and rework stations, hand tools, and crimping equipment.

CAD, CAM & production software: Autodesk Fusion 360, AutoCAD, KiCad, EasyEDA, PolyBoard, OptiCut, and CuttingCam.

Programming & controls: Arduino IDE, MicroPython, MATLAB, TIA Portal, PLCSIM, serial communications, RS485, and Modbus RTU.

Energy systems: PVsyst and vendor-specific PV and inverter software.

Education

Bachelor of Science in Physics

Degree in progress - final year

Lebanese University, Faculty of Sciences, Branch 4, Zahle

Certifications & Technical Development

- **Professional training:** Bosch Automotive Electrical & Electronics Diagnostics.
- **Embedded systems:** Arduino and Embedded Systems Development.
- **Electronics theory:** Circuit Analysis I & II (advanced problem-solving and simulation); Advanced Circuit Design and Testing; Physics for Electronics.

Additional

SAT Math: **770/800** (97th percentile) | Total: **1270** (83rd percentile)