

# SAIF EDDINE JOUL

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Versatile and Ambitious Engineer, Quality and Safety focused, Team player and solo achiever

## Summary

Mechatronics Engineer who is driven, curious, and adaptable. With hands-on experience across electrical, electronic, and mechanical systems; from maintenance and LV installations to 3D design and automation, I've done them all. I thrive in collaborative result-focused environments and I'm continuously expanding my skill set through project management practices and utilization of AI tools, ensuring my portfolio is always aligned with modern industry standards.

## Education

**Universiti Sains Malaysia**

Feb 2020 – Nov 2024

Bachelor of Engineering in Mechatronics Engineering (Hons)

## Experience

**Field Technician (Project based),** Independent General Contractors – Morocco

Mar 2025 - Present

- Performed on-site electrical installations for renovation and expansion projects, handling full wiring systems, circuit extensions, and load calculations for residential and commercial clients
- Commissioned electrical circuits from MCB panels to outlets and fixtures, enforcing improved cable management, conduit use, and introducing grounding/color-coding standards enhancing safety and reducing troubleshooting time
- Installed CCTV surveillance systems, along with centralized power supply and discreet cable routing to ensure reliable 24/7 operation without overloading existing circuits, educated clients to access and control the systems over a network
- Designed and fabricated custom metal structures such as window frames and light support using precise cutting/drilling, coupling, and galvanized painting techniques for long-term durability
- Expanded service scope and customer retention by offering post-service waterproofing and finishing services, while ensuring transparent communication, regular updates, and before/after approvals that strengthened customer trust
- Delivered expert computer hardware/software services, including RAM/storage upgrades and component replacements, successfully fulfilling over 30 client service requests and extending asset lifecycles

**Electromechanical Engineer,** Hitronik – Penang, Malaysia

Aug 2023 – Oct 2023

- Restored a CNC lathe machine by diagnosing, fixing electronic faults and recalibrating motion settings, as well as measuring and ordering custom parts. Bringing it back to full operation within one week
- Designed and installed a solar-powered LED signage system with custom PCB and rooftop solar integration, enabling 24/7 off-grid lighting, with water proof and heat proof conduits for safe operation in all forecasts
- Built an automated solar-powered pump system using custom circuitry, microcontroller logic, and mechanical coupling to regulate upstream irrigation, with an independent and secure rechargeable battery, all using recycled parts

**USMi Deputy President,** USM International student society – Penang, Malaysia

Feb 2023 – Apr 2025

- Worked under the direct guidance of the founder of USMi, to plan and execute several large-scale multicultural initiatives that reached hundreds of students and consistently advanced the society's vision and purpose
- Introduced an energetic, collaborative, and results-driven mentality, establishing new partnerships with campus societies and departments, and significantly increasing USMi's outreach and visibility among students and staff

## Skills

**Engineering & Technical Design:** SolidWorks, AutoCAD, MATLAB/Simulink, OrCAD PSpice, Omron CX, PCB/Schematic Design, Electrical assembly, Sensors, Actuators and Control Systems

**Software & Automation:** Python, PLC Ladder Logic, OpenCV, Ms Azure AI, AI prompting & automation, Visual Studio,

**Quality & Professional Skills:** Quality & Reliability Tools, Minitab, Agile Project Management, Risk & Change Management, Analytical & Problem-Solving Mindset, IELTS (C1), Ms Project, Power BI, Six Sigma/DMAIC