

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
- Recognized for initiative and reliability, going from apprentice to field engineer through cross-disciplinary versatility, attention to detail, and an active approach to safety and customer relations

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