

Joëlle El-Murr

Beirut, Lebanon

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Product Manager | Data Scientist | Industrial Software Engineer

PROFESSIONAL SUMMARY

Industrial Software Engineer and Data Scientist with nearly 6 years of experience leading R&D; initiatives, developing industrial data-science solutions, and managing end-to-end product lifecycles within automation-focused environments. Proven ability to translate complex technical requirements into scalable, market-ready products while aligning cross-functional teams to deliver measurable impact. Strong expertise in Python, industrial communication protocols, IoT architectures, and data visualization, with a results-driven mindset focused on efficiency, innovation, and operational excellence.

TECHNICAL SKILLS

Python, Pandas, Plotly, Dash, SQL, HTML, CSS, OPC-UA, API Integration, SCADA, Modbus (RTU & TCP), Profibus, Profinet, TrakSYS, Zenon, KepWare Server, Grafana, Node-RED, Arduino, Raspberry Pi, IoT Computing, IBM Cloud, TIA Portal, Assembly, VHDL, Proteus

PROFESSIONAL EXPERIENCE

FourO – Product Manager (Apr. 2024 – Present) Spain / Lebanon

- Own the full product lifecycle from ideation to deployment for industrial data-driven solutions.
- Translate business requirements into detailed technical specifications and execution plans.
- Lead coordination between engineering, data science, and stakeholders to ensure timely and high-quality delivery.
- Define product roadmaps, priorities, and feature scope aligned with market needs.
- Enhance product usability, clarity, and performance through structured requirement management.

Teknologix – Data Scientist & Product Manager (Nov. 2020 – Apr. 2024) Lebanon

- Led the Data Science & Development Department, overseeing R&D; strategy and execution.
- Designed and developed industrial data pipelines, dashboards, and advanced visualization tools.
- Built and maintained web applications, backend systems, and databases.
- Designed IoT architectures and implemented industrial communication protocols (OPC-UA, Modbus, Profinet, Profibus).
- Managed multiple concurrent R&D; projects under tight deadlines while maintaining high delivery standards.
- Provided on-site system integration, commissioning, and advanced technical support.

Teknologix – R&D; Intern (Master’s Project) (Mar. 2020 – Oct. 2020) Lebanon

- Developed a Power Meter Data Logger integrating Modbus (RTU & TCP) communication.
- Implemented OPC-UA, Profinet, and Profibus protocols.
- Developed Python-based data collection and SQL-based data management systems.
- Configured and wired industrial hardware devices.

Lebanese University – Academic Projects (2018 – 2019)

- Developed IoT-based solutions including Smart Fire-Fighter Robot, Smart Pantry, Smart Street Lights, and Smart Parking systems.
- Programmed Arduino and Raspberry Pi devices with integrated sensors and micro-controllers.
- Designed and wired integrated circuits for automated control systems.

EDUCATION

Master of Science (MS) in Industrial Electronics – Lebanese University (2020)

ADDITIONAL INFORMATION

Languages: Arabic (Native), English (Fluent), French (Fluent)

Selected Trainings: AMIDEAST English Access Program, INJAZ Leadership Program, Project Citizen Training, TOEFL Junior (805/900)