



Omar Jalel

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Home: Qormi (Malta)

WORK EXPERIENCE

Methode Electronics – Birkirkara, Malta

Name of unit or department: Design Electric Département

Industrial Automation Engineer

[18 Mar 2024 – Current]

Manufacturing of new automated machines:

- Design and document electrical schematics and control panels.
- Electrical panel wiring: PLCs, Sensors, Emergencies & Safety components, MVK, IO Links, HMIs, VFDs, Valves
- Tia portal Programming for Simple stations machines and Turn Tables using a robust standardized Tia Portal templates
- HMI Screens Programming under WinCC.
- Collaborating with Cross-Functional teams including Manufacturing engineering, Maintenance, IT Department.
- Provide the necessary training for operators and technical instruction for the maintenance team.
- Ensure that automation systems comply with the safety standards.

Improvement and maintenance of existing automated machines:

- Commissioning and integration of additional equipment or automated machines within existing industrial lines ensuring seamless integration with existing infrastructure.
- Enhance and upgrade Existing automation Program to reduce downtimes and production cycle time.
- Online monitoring and troubleshooting of automated systems.

Projects

- BMW Line Project - Egypt
- RENAULT XDD Riveting Machine
- RENAULT XDD Micro resistance Testing Machine
- RENAULT HHN
- Punch Vitesco Vision Jigs
- Porsche Sensor and RSU machines
- R&D Project - Implement RFID System to access machines functionalities connected through PLC

Skills acquired (Tia Portal & WinCC Programming, Siemens Project Server, PROFINET devices / Networks, Tia Portal Safety Blocs, Safety Components, Jaka Robots, Siemens Simotion, Servo Drives, Sensors & Actuator commissioning, High Speed Counters, PCSchematic Electric Diagrams, PLC Remote access, Basic, Comfort and unified HMI Panels)

Discovery Informatique SA – Ariana, Tunisia

Name of unit or department: R&D Département - **Business or sector:** Information and communication

Industrial Integration Consultant

[2 Feb 2022 – 15 Mar 2024]

- Study and demonstrate IIOT tools and technologies on behalf of several industrial clients
- Participate in the study of new technologies and documentation within the R&D department
- Participate in the tasks of demos, studies, implementations for the implementation of an MES (part integration with machines and control units)
- Identify IIOT communication points before the integration phase of an MES: Technical feasibility, choice of equipment, budget estimate, etc.

- Develop a communication gateway to monitor and collect machine variables in real time via several industrial protocols
- Improve the gateway to be able to archive collected data and operate in multi-node mode
- **Skills acquired** (Docker, Apache Kafka, Curl, Linux, Git, TwinCAT, Beckhoff PLC, OPC UA, Modbus TCP, ADS/AMS, Tia Portal, PLCSIM Advanced, Siemens S7, Factory IO, VC Components, RS Logix, MQTT)

APBS Avicenna Private Business School – Tunis, Tunisia

Name of unit or department: IT Helpdesk - Business or sector: Education

IT and Maintenance support

[17 Sep 2021 – 1 Feb 2022]

- Maintain and adjust computer and electronic equipment
- Monitor online sessions and conferences
- Participate in the wiring and installation of various equipment (cameras, touch screens ...)
- Develop a solution for mixing between multiple cameras and multiple audio sources
- Skills acquired (Zoom, Surveillance cameras, IT Networking)

EDUCATION AND TRAINING

Professional master's in industrial systems Control

University of Carthage - ISSAT Mateur [15 Sep 2019 – 15 Jun 2021]

City: Bizerte | Country: Tunisia | Website: <https://ucar.rnu.tn/> | Level in EQF: EQF level 7

- occupational techniques (making of standard breads, fancy breads, cakes and pastries)
- science applied to food and equipment (microbiology, biochemistry, hygiene)
- occupational technology (basic principles, hygiene and safety)
- knowledge of business and its economic, legal and social context

Applied degree in automation of industrial systems (Bachelor's degree)

University of Carthage - ISSAT Mateur [15 Sep 2016 – 15 Jun 2019]

City: Bizerte | Country: Tunisia | Website: <https://ucar.rnu.tn/> | Level in EQF: EQF level 6

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English

LISTENING C1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2

French

LISTENING B2 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

German

LISTENING A1 READING A1 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft Office / Linux (Terminal Commands, Bash/Shell) / Microsoft Excel / Microsoft Word / Microsoft Powerpoint / Devops: Docker, Jenkins / DevOPS (basic level) / Portal Azure / Cloud - Azure / Tia portal / Apache Kafka (Streams, Connect) / plc programming in siemens / Raspberry Pi y Arduino / Html, Java, CSS / NODE red / MySQL, SQL, SQLite, PostgreSQL / OPC/OPC-UA / Industrial protocols (Modbus RTU and TCP) / Profinet IO / NI LabVIEW 2019 / STM32 CubeMX / Matlab/Simulik / KIEL/PROTEUS / Software Fluidsim / S7-

HOBBIES AND INTERESTS

Chess game

Editing videos

Technology News

DRIVING LICENCE

Driving Licence: B