



Omar Jalel

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Home: Qormi (Malta)

WORK EXPERIENCE

Method 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/Simulink / KIEL/PROTEUS / Software Fluidsim / S7-

PLCSIM / SIEMENS PLC / Beckhoff TwinCAT 3 / Mqtt Brokers / Basic Electrical Wiring Connection/ Installation / PLC programming, Tinkering with Arduino, Panel Designing, IOT

HOBBIES AND INTERESTS

Chess game

Editing videos

Technology News

DRIVING LICENCE

Driving Licence: B