

Curriculum Vitae

Wassim OUELHAZI



Tunisian



Born on 06/10/1992 in Tunis, Tunisia



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Wassim Ouelhazi



DIPLOMA & DEGREE

2018-2020 Master degree in Entrepreneurship

Tunis-Tunisia (Course : Business Management)
IHEC Carthage



2014-2017 Engineering diploma

Tunis-Tunisia (Course : Instrumentation and industrial maintenance)
INSAT



2013-2014 bachelor degree in physics

Tunis-Tunisia (Course : Instrumentation and physical measurement)
INSAT

2010-2011 High school diploma (with high honors)

Tunis-Tunisia (Course : Technical sciences)

LANGUAGES



French : High level C1 (TCF)



English : Intermediate level



German : Basic knowledge



Arabic : Mother tongue

PROFESSIONAL TRAINING

2020-2021 Defensive driving courses

Tunis-Tunisia International Training Center



2020-2021 Electrical accreditation B1-B2-BC-BR

Tunis-Tunisia International Training Center



2020-2021 Data analysis using python

Tunis-Tunisia IBM



2019-2021 Fire fighting Training

Sfax-Tunisia International Training Center



2016-2017 Certified SolidWorks® Associate CSWA

Tunis-Tunisia Dassault Systèmes



2016-2017 Management QHSE (Quality-Health-Security-Environment)

Tunis-Tunisia Tunisian Engineering group TEG
ISO 9001 :2015 / ISO14001 :2015 /ISO 45001



COMPUTER SKILLS

Engineering software :

MS Office, LabView ,Matlab ,Scilab ,
COMSOL multiphysics , ISIS, Multisim,
Solidworks,CATIA,Windev,GMAO PRO ,
Optimaint , Q4Power Engica, Winflex,
Prelude

Programming software :

Pascal , C , Java , Assembleur ,C ARM,
VHDL ,VBA, Visaul Basic
6,Lindo,STM32,Arduino...

PROFESSIONAL EXPERIENCE

14 Oct 2019– Today
Tunis, Tunisie

TTPC Eni (Transtunisian Pipeline Company TB)

Instrumentation Engineer

- Gas dispatching management (Planning, control, allocation, reporting)
- Monitoring nominations, delivery and sampling pressure and other physical parameters at the various points (entry/exit).
- Monitoring, management and maintenance of counting systems (at compressor stations and shippers sampling point).
- Continuous monitoring of gas quality.



01 Nov 2017– 13 Oct 2019
Tunis, Tunisie

Carthage Power Company

Operation & Instrumentation Engineer

- Team leader and supervisor of instrumentation maintenance work(calibration , monitoring ...)
- Performing all tasks assigned in a safe and responsible manner in accordance with the established operating procedures and written and oral instructions from Panel Operator and Lead Operator and taking appropriate actions in accordance with Panel Operator and Lead Operator in case of emergency.
- Patrol a combined cycle power plant and ensures that the equipments (Gas turbines/Steam Turbine/Heat recovery steam generators) are operating normally and that no unusual conditions exist.
- Collect samples of various streams and delivers them to the laboratory.
- Start and stop pumps, compressors, prepare equipment for maintenance including isolation, draining, steaming based on the direction of the panel operator.
- Perform daily check and minor maintenance based on the checklist.



INTERNSHIPS

03 August- 30 Nov 2020
Tunis, Tunisia

TTPC Eni

End of study thesis (Master's degree in entrepreneurship)
Establishment of a management control and performance pilot assistance system



13 March- 28 Sep 2017
Bordeaux, France

IMS Laboratory

Graduate engineering trainee (MDA Team)

Modelling, simulation and testing of acoustic wave microsensors based on porous matrix for applications in liquid medium



- Development of chemical and biological surface acoustic wave microsensors.
- Study of the propagation of elastic waves and their interaction with a liquid medium.
- Integration of innovative structured materials as recognition films (mesonano-structured, biomaterials, etc.)
- Applications for the detection of chemical or biological species and the dynamic characterization of thin film materials or complex fluids at high frequency.
- Characterization of love wave sensors in clean rooms.
- Multiphysical modeling of love wave sensors.

11 July- 11 August 2016
Tunis, Tunisia

ADWYA, Pharmaceutical industry

Planning intern (Methods department /Summer trainee)
Development of a supply schedule of packaging products



03 August - 03 Sep 2015
Tunis, Tunisia

FIGEAC Aerospace, Aviation industry

Intern (Maintenance department /Summer trainee)
Implementation of the preventive maintenance schedule for MORI SEIKI NMV5000DCG machining centers



01 Feb -31 May 2014
Tunis, Tunisia

STELIA Aerospace, Aviation industry (AEROLIA)

Intern (Maintenance department /Graduation Trainee)
Improvement of the diagnosis by Failure modes and effects analysis of the riveting machine



01 July - 01 August 2013
Tunis, Tunisia

COFAT, Automotive industry

Intern (Maintenance department)



OTHER SKILLS

Know-how :

- Checking Calibration of instruments through DCS
- Monitoring and Controlling plant through SCADA/DCS
- Calibration and verification of instruments such as analysers and transmitters using smart field communicator, Hart protocol.
- Troubleshooting in process instrument and analysers.
- Control and configure valves by using field communicator.
- Preparation of technical documentation.
- Able to read Instrument Data sheets for various Field instruments, Preparation of Instrument List, Review of P&ID.
- Coordination with other disciplines and providing necessary technical support.
- Decision-making on instrumental technical choices.
- Knowledge of design and mechanical modelling and simulations,
- Knowledge in quality management
- Programming skills such as embedded systems.

Soft skills:

Curious, ability to adapt, negotiation skills, rigorous, dynamic, team spirit, listening skills, proposal of improvements ,good interpersonal skills, strength of conviction, organizational skills ,strategic planning, ability to estimate, optimal exploitation of resources, openness towards international ...

COMMUNITY LIFE

- Member of the association of the Rashidia institute
- Former member of AeRobotiX INSAT Club.
- Participation in the organization of the national ICT Days 2013 et 2014 – NetLinksDay.
- Former Vice-president of the organizing committee of the Tunisian Aeroday 2015.
- Former journalist and photographer for INSAT PRESS.

HOBBIES

- Sports (Tae Kwon Do, Football, Swimming)
- Music : Pianist.
- Traveling.
- Driving license B

PROJECTS

- 2018** Development of a mobile application for the daily inspection of the installations of a power plant. [Operation department - CPC](#)
- 2016** Design and realization of an automatic control and monitoring system of a greenhouse using labview and arduino Uno card. [INSAT](#)
- 2015** Design and development of a Matlab Guide User Interface for signal processing and filtering. [INSAT](#)
- 2014** Implementatipn of an RC Glider. [Tunisian Aeroday exihibition- Mechatronics Club INSAT](#)
- 2013** Design and implementation of an educational model of an instrument panel of a plane – [Mechatronics Club INSAT](#)
- 2012** Design and implementation of a line follower and obstacle avoider robot. [ROBOCOMP competition - Mechatronics Club INSAT](#)

PUBLICATIONS (As a researcher)

- Nov 2018** **Article**
Mesoporous titania-coated biosensor and FEM model design for highly sensitive detection of low molecular weight targets.
[IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology](#)
Link : <https://ieeexplore.ieee.org/document/8531788>
- Oct 2017** **Communication to congress**
Mesoporous Titania-Coated Love Wave Sensors and FEM Model Applied to Viscosity Micro-Measurements.
[IEEE Sensors, Glasgow, United Kingdom. 2017](#)
Link : <https://hal.archives-ouvertes.fr/hal-01719068>
- Sep 2017** **Communication to congress**
Love wave devices coated with TiO2 porous sensitive layer for direct detection of small molecules
[2nd edition Transfrontier Meeting Sensors and Biosensors, Montpellier, France. 2017](#)
Link : <https://hal.archives-ouvertes.fr/hal-0171907>

