

TAREK OMRAN

Software Support Engineer

@ tarek.omra2000@gmail.com +33689589166 Paris, France
in www.linkedin.com/in/tarek-omran



EDUCATION

General Engineering

CentraleSupélec

2021 - Present Paris, France

Double Degree Agreement between CentraleSupélec and Lebanese University, specialized in Control in 3rd year

Electrical and Electronic Engineering

Faculty of Engineering, Lebanese University

2017 - 2021 Tripoli, Lebanon

GPA: 16/20

PROFESSIONAL EXPERIENCE

Software Support Engineer

GE VERNOVA

January 2024 - Present Massy, France

- Responsible for troubleshooting on every virtual machine for the platform hosted on AWS cloud.
- Conduct deployments of newer versions and archiving procedures.
- Test new requirements requested by clients on testing environments similar to production before deploying on the production environment.
- Make Java code modifications and patch the platform.

6-month Internship

Renault Group

May 2023 - October 2023 Guyancourt

- Energy optimization of inverter control in specific operating modes.
- Modeling of the electrical machine and parameterization of inductances and mutual inductances to obtain more accurate current ripple estimates in simulations.
- Prediction of induced voltage in the rotor.
- Testing the control laws synthesized on digital platforms.

UNIVERSITY PROJECTS

- Trajectory control of an autonomous vehicle in collaboration with Renault.
- Neural-network-guaranteed control for mobile robots (MPC estimation using neural networks).
- PID tuning of a mobile rover.
- Design of a Kalman filter observer for a motorized platform.
- Modeling of a zinc-air battery involving data manipulation and applying machine learning models to predict the output voltage.
- Development of an educational game for children using C#.
- Creation of a user interface for a company selling prepaid cards using MySQL and C#.
- Design and control of a satellite for an agile mission supervised by ThalesAlenia Space.

CERTIFICATES

- Professional Data Scientist certified by DataCamp.
- Fundamentals of Reinforcement Learning by the University of Alberta.
- Certificate of Completion for Machine Learning A-Z using Python by Udemy.
- Predictive Control Model for Autonomous Vehicles by Udemy.
- Mastering Statistics with Python by Codecademy.

TECHNICAL SKILLS

MATLAB	●●●●●
Python	●●●●●
Simulink	●●●●●
Arduino Board Programming	●●●●●
Labview	●●●●●
AWS	●●●●●
mySQL	●●●●●
Grafcet/Ladder	●●●●●
MS Office	●●●●●
C	●●●●●

LANGUAGES

English	●●●●●
French	●●●●●
Arabic	●●●●●

INTERESTS

- Weightlifting**
I have been weightlifting for 10 years.
- Nutrition**
Counting calories and optimizing macros.
- Basketball**
Played with the Lebanese club Mouttahed for 7 years.