Abdelhaq Ouballouk

Abdelhaq.ouballouk@ensem.ac.ma

TINEJDAD, ERRACHIDIA 52600

23

years old

Moroccan

0659489907

Single

Electrical engineer

Versatility and agility are the key skills for me to adapt to any job.

Fb @Abdelhaq Ouballouk

ln @Abdelhaq Ouballouk

Degrees

From 2018 to 2021 — **Engineer in Electrical Engineering, Embedded Systems and Telecommunications** National Higher School of Electricity and Mechanics ENSEM CASABLANCA

January 2016 to june 2018 — **Preparatory classes for engineering schools** CPGE IBN-TAHIR ERRACHIDIA

MP (Mathematics and Physics)

October 2015 to june 2016 — **Baccalaureate in Mathematical Sciences-A** Lycée_Hasane-2 Tinejdad, Morocco.

Professional experiences

February 2021 to july 2021

Project Graduation MAdomotique CASABLANCA

- ✓ Develop a web application for the visualization of consumption data provided by connected energy sensors based on Node-Red and Power bi.
- ✓ Creation of AI algorithms for the interpretation of indicators

July 2020 to august 2020

Technical Internship AKEnergy CASABLANCA

- ✓ Design and realization of an electronic board based on Arduino Nano for a monitoring system that allows to control and to control and visualize at distance the functioning of this installation.

July 2019 to august 2019

Introductory training MANAGEM BOUAZZER

- ✓ Development of a predictive maintenance plan forAsynchronous machines using the concepts of Machine Learning.

Skills

Electrotechnics and Energetics

Electrical networks -Electrical machines -Power Electronics - VFD's - Electrical construction and installation.

Automation

Linear and nonlinear automatic and discrete systems, LQR, state spaces.

Electronics and telecoms

Design and simulation tools for embedded systems - DSP Applications, CAO for integrated Circuits - Signal and information processing -Analog and digital electronics – computer Architecture- Image processing and radio frequency systems – Microstrip technology.

Languages

English

French

Arabic

Modeling Skill

MATLAB / SIMULINK

> Development of a self-balancing robot control.
> Modeling, simulation and implementation on Arduino of the control of a stepping motor.
> Modeling, simulation and implementation on Arduino of a Kalman filter.
> Modeling and simulation of Buck and boost converters.
> Modeling and simulation of an FM modulation et demodulation system.
>Modeling and simulation of communication protocols (ALOHA).
>Image processing using DSP.
>FPGA coding.

Blender 3D

Blender, is a very powerful tool for 3D modeling.

Computer Skills

C/C++, Fluter Python, Html, SQL,

Linux, ROS, Gazebo, rviz, Rtab-MAP.

Altium designer, PSIM , MULTISIM, Pspice

Travel and Interests

The organization of events (conferences on machine learning, IOT electric day, robotics competitions).
Participation in the electrification of a village of 50 homes in the region of Beni-mellal.
Animation of cultural events and development of the elementary school for the benefit of village children.