

AZHAR AOUNI : EMBEDDED SYSTEM ENGINEER

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PERSONAL DETAILS

Date of Birth : 24 years

LANGUAGE

Arabic : Bilingual  
English : TOIEC B2  
French : C1 level  
German : A2 Level

SKILLS

Langages : PYTHON, C, MySQL, VHDL, VHDL, Assembly, MatLab, Nodejs.  
Boards: Microcontrollers, stm32, esp32, Arduino, Raspberry.  
Tools / IDEs: Altium designer, Modelsim, IAR Embedded workbench, Isis, LabVIEW, MatLab-Simulink, Visual Studio, Eclipse.  
Operating Systems: Windows, Linux, Raspbian.  
Knowledge / Methods: IOT, Databases, ARM, Embedded Systems, OSI Architecture TCP/IP, MQTT, GIT.

SOFT SKILLS

- Teamwork and Management sponsoring committee Director - “ENICarthage Mechatronics Club” (2018)
- Initiative and Self Confidence Founder “GO-Getters” club

OBJECTIVE

My adaptability, listening, teamwork, my dynamism and my motivation are qualities which I take in my work while hoping that my training and experience may be sufficient for my candidacy.

EXPERIENCE

ITESLAB, Tunis Since November 2020 -

HW/SW Embedded Systems Engineer

Task :  
Development and project management in the context of teamwork.

Projects :  
Intelligent barrier for parking

Most used technologies:  
Python

Embedded C

STM32

Altium (PCB Design)

Technical documentation

ITESLAB, Tunis March 2020 - September 2020

End study project  
Develop a POE solution that allows the user to instantly view temperature, humidity, gas, brightness and detect the movement of people while controlling the lighting in any space through a connected device. In fact, electronic boards were made using Altium and programmed using System Workbench for stm32 and Arduino IDE, transferring the data to the Mysql DB using a Nodejs socket and creating an interface using native React.

Technologies : sensors, MCU of stm32l073rz, ESP32-POE-ISO, TCP/IP, MQTT, SQL, UART, I2C, ADC, SPI, POE, Nodejs, React native.

IDE : Altium Designer, System Workbench for stm32, Arduino IDE, MYSQL, Visual Studio.

**Internship**

The first Project: develop an application with Labwindows to send DATA to raspberry pi server and save it in database.

The second project: develop an application with Labwindows to communicate to electronic chips and get speed values of WIFI for drawing the Gaussian curve.

Technologies : Raspberry B3+, Python, C.

IDE : Labwindows, Python.

**SOTACIB, Feriana**

August 2018 - September 2018

**Internship**

Winding process and maintenance of cement.

Test the electronic board in the filter.

**EDUCATION**

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**National Engineering School of Carthage**

2020

National engineering degree in Mechatronics engineering

Graduated with Honours

**Preparatory School for engineering studies (MP) at Tunis.**

2017\_2015

National Engineering Schools' entrance Exam

**Graduated with high honours**

2015

Baccalaureate: Maths

Honor degree

**PROJECTS**

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**Final year project**

IP cameras capture images and videos, and transmit over the network connected via ethernet cable to a broadband modem

Technologies : cartestm32F746NG,module cameraSTM32F4DISCAM

IDE : Stm32cubeIDE1.0.0

**Electronics Project: Red light for the disabled**

Keywords: ISIS,MPLAB

**Projects: Wheeled Robots - Competitions**

Autonomous and Controlled Robot

e.g: Line Follower - Obstacle Avoider - Fighting Robot..

Technologies: Arduino, esp32, capteurs des couleurs.... , des servaux moteurs, module Bluetooth

IDE : Arduino IDE

**ACHIEVEMENTS & AWARDS**

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First place in Eniga robotics competition.

Participate in the organisation for international competitions: ROV competition.

Second place in Enicarthage robotics competition.