



# KHALID ESSAHNOUNY

## ELECTRICAL AND EMBEDDED SYSTEMS

### CONTACT

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### SOFTWARE

- LTspice
- Dev - C++
- Ms Project
- ISIS Proteus
- Quartus 2 / ZeloI
- Tia Portal
- Matlab / Simulink

### SOFT SKILLS

- Autonomous
- Public Relations
- Teamwork
- Team spirit
- Leadership
- Effective Communication
- Critical Thinking
- rigorous

### LANGUAGES

- Arabe (Fluent)
- French (Fluent)
- English (Intermediate)

### PROFIL

Engineering student in the 3rd year at FST-SETTAT, specializing in Electrical Systems Engineering and Embedded Systems, I am currently seeking a final-year internship (PFE). I am eager to learn, explore new professional experiences, and take on challenging opportunities. I enjoy working on diverse problems and creating innovative solutions.

### WORK EXPERIENCES

#### C2EZ | STAGE

June 2024 – August 2024

- Electronic Technician | Electronic Board Repair
- Medical Autoclave Timer System: Designed a medical autoclave timing system using Arduino, ensuring safe cleaning of instruments with disinfectant gas while restricting access to the room during the process. The system features an intuitive user interface for easy operation.



#### IMACAB | STAGE

August 2023 – September 2023

- Maintenance Technician
- Prepared a project report titled "Categories of Electrical Cables," detailing the various types, uses, and specifications of electrical cables.



#### RESELEC S.A.R.L | STAGE

June 2023 – July 2023

- Winding Technician | Repair | Maintenance of Electric Motors.



### CENTRE INTERETS

- Intelligence Artificielle (IA)
- Smart Grids
- Renewable Energy
- Internet des Objets (IoT)
- Telecommunications and Networks
- Automobile

## COMPUTER SKILLS

- Assembleur
- C / C++
- Python
- Java
- Visual Basic
- Webots
- Netbeans / Eclipse
- Cisco Packet Tracer
- VirtualBox VM
- ARM Cortex Processors
- Linux ( RedHat | Centos )
- PyQt | html | css | js

## CERTIFICATS

- The Raspberry Pi Platform and Python Programming : **UNIVERSITY OF CALIFORNIA, IRVINE**
- Neural Networks and Deep Learning & Supervised Machine Learning: **DEEPLARNING.AI**
- Regression and Classification **DEEPLARNING.AI**
- Linux and SQL: **GOOGLE CAREER CERTIFICATES**
- C Language # : **HACKERRANK**
- Tools of the Trade ,Linux and SQL : **GOOGLE**
- Agile and Scrum Business Analyst: **INSTITUTE OF MANAGEMENT, TECHNOLOGY AND FINANCE**
- Machine learning : Traitement du langage naturel avec Python : **LINKEDIN**
- Learning Solidworkd: For Students, Engineers, and Designers sur **UDEMY**

## FORMATION

- \*2020 – 2025 | State Engineer Degree\*
  - Faculty of Science and Technology, Settat
- 2020 – 2022 | University Degree in Science and Technology
  - Faculty of Science and Technology, Settat
- 2019 – 2020 | Baccalaureate in Physical Sciences
  - Moussa Ibn Noussair High School

## ACADEMIC PROJECTS

- Design and Implementation of an IoT-Connected Power plug.
- Advanced Driver Assistance System (ADAS) in Real-Time with 3D Animation and Integrated Image Processing in Matlab/Simulink.
- A Voice-Controlled IoT System Using ESP32 and Google Assistant.
- Advanced ML Self-Driving Car System for Lane Keeping, Collision Avoidance, and Road Sign Recognition.

## COMPETENCES

FPGA (Intel Card | Terasic) | VHDL | Verilog  
Study and Programming of Electronic Boards  
Repair of Electronic Boards  
Communication Protocols (CAN, I2C, SPI, UART,Http,Mqtt)  
Digital Signal Processing  
Networks and Interconnections (IPv4, IPv6, TCP/IP, Ethernet)  
Autosar (Automotive Architecture Software)  
Microcontrollers (STM32, ESP32, Arduino, Raspberry Pi, PIC 16F, etc.)  
PCB Circuit Design Software (EasyEDA | KiCad | SolidWork PCB)  
Control-Command Schematics .  
Electrotechnics .  
Design for Testability .  
Physical Design .  
Design and Verification .  
Connaissance des commandes terminal Linux et des outils de gestion logicielle .