

SKILLS

Computer Programming

Python, JAVA, C, C++, VHDL, Verilog Shell Scripting, Git, Assembly, MATLAB Simulink, Linux.

Conception et Simulation

Proteus, PSpice, Microwind, LabView, CATIA, AUTOCAD, Step7, Quartus 2, Tia Portal, Pvsys, Qsys, CANalyser, Power Bl.

Full stack dev



HTML 3 CSS PHP 5 JAVA script

Communication Protocols.

CAN, LIN, I2C, Zigbee, NFC.

Other

Power Electronics, Electrical Engineering. Raspberry Pi, ESP 32, STM32

Adobe, B2B, B2C, Financial Management.

CERTIFICATION

- Standards and Protocols: ISO 26262, ISO/SAE 21434.
- Carbon Footprint Essentials : How to Conduct a CO2 Inventory (UDEMY)
- Microsoft Power BI Desktop for Business Intelligence (UDEMY)
- Semiconductor Physics (University of Colorado Boulder).
- · State Estimation and Localization for Self-Driving Cars (University of Toronto).
- Introduction to Self-Driving Cars (University of Toronto).
- FPGA Design for Embedded Systems.

PARASCOLAIRE

- Technical and Communication Manager for Cub OPEN MIND ENSAKH.
- Technician and Developer for the annual ElectroDays event.
- Sponsorship Manager for Cromek 7.0.

INFORMATION



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Ayoubbourouhou

23 years old Driving License B

AYOUB BOUROUHOU

Electrical and Electronic Engineering for **Embedded Systems**

PROFILE

Electrical Engineering and Embedded Systems student, dynamic and with excellent teamwork skills. Passionate about technological innovation, I am seeking a final-year internship to apply my skills in practice.

PROFESSIONAL EXPERIENCE

End-of-Year Internship at UTAC

Testing and Validation of Braking - ADAS

July - September | 2024

- · ADAS testing.
- Vehicle instrumentation for testing braking ADAS – durability.
- Analysis of test results using CANalyzer.
- · Braking system analysis.
- Use of DeweSoft for brake sensor analysis.
- Driver distraction and fatigue tests according to the Euro NCAP standard.
- Analysis of electrical and electronic faults.
- Vehicle reception sheet.

Internship at Green Energy Park

June - August | 2023

- Development of a tester for electric vehicle charging stations.
- Communication of the electric vehicle charging module using the CAN communication protocol.
- · Control system using GSM-SMS technology.
- Charging station architecture.
- Programming with STM32.
- Testing and validation of solar panels.

PROJECTS

- Tachometer speed sensor with NE555.
- Simulation of a PID control system using Simulink.
- Design and simulation of a PWM-mode inverter for induction motor control.
- Creation of a website for an annual department event.
- Quartz clock with seconds display using 60 LEDs and PIC 16F84A.
- Creation of an autonomous model simulating a city for the ElectroDays competition.
- Project on basic predefined functions in C on a machine within 1337.
- Development of a Custom Processor on FPGA.

EDUCATION

Engineering Degree

Electrical Engineering and Embedded Systems

National School of Applied Sciences of Khouribga

Integrated Preparatory Class

National School of Applied Sciences of Khouribga

Baccalaureate

Technical Qualification High School

Physical Sciences

LANGUES

Arabic: Native French: Fluent English: Fluent

2022 - Present

Project management in

Preparation and drilling

• Writing test reports for

of pedals and plates for

• Development of a mobile

using FLUTTER.

application to find electric

vehicle charging stations

V-cycle.

clients.

brake testing.

2020 - 2022

2018 - 2019

Mention: Very Good