SAAD SAMBA

EMBEDDED SYSTEMS AND CONTROL
SYSTEMS ENGINEERING STUDENT

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PROFESSIONAL EXPERIENCES

Internship
2021 : June- August at Pulse Digital

Conception and Development of an E-commerce website

- Project management as the team leader through the Agile approach.
- Structuring the advancement of the source code using the Version Control System (Git).
- Development of php modules and linking them with SQL databases.

FORMATION

Engineering Cycle : Embedded Systems and Control Systems
ENSA Marrakech   2019-Present

Preparotary Cycle
ENSA Marrakech   2017-2019

Baccalaureate SM (B) - With High Honours
Ariha - Marrakech   2015-2016

EXTRACURRICULAR ACTIVITIES

Electrical Club | 2019-2020
Photographer and Video Editor
- Organization of the first local competition of robotics.

Jeunes Leaders Marocains (JLM) | 2017-2019
Technical Manager
- Social entrepreneurship Forum.
- Project "Eco-École".

Japan Club | 2017-2018
Active Member
- Organization of the Japanese Day.
- Arrangement of the national competition of E-sports.

PROJECTS AND ACHIEVEMENTS

Reactive anticollision system
Keywords : Python (Numpy & Pygame), Deep Learning, Evolutionary Neural Network, Genetic Algorithm.

Speed and Direction control of a DC motor through PWM
Keywords : C, PIC16F877A, Proteus; MiikroC.

Modelling and Scalar Command of Induction Machines
Keywords : PI, Matlab/Simulink, Control disk, dSPACE 1104, PWM.

Identification and Control of a pumping Station in real time
Keywords : PI, Matlab/Simulink, Control disk ,dSPACE 1104.

Modelling and Command of an industrial Oven (In Progress)
Keywords : Matlab/Simulink , Sfunction.

SKILLS AND TECHNIQUES

Programming Languages	Matlab, Python, C, php, HTML, CSS, MySQL
Electronic Cards	PIC16F877A, dSPACE 1104, NIOS ll, Microprocessor (MIPS)
Software	Matlab/Simulink-PLECS, MPLAB-IDE, Control Desk, PyCharm and Xcode.
Test and Verification	Test black box/white box, Lcov, Gcov.
Communication Protocols	CAN, UART. I2C & SPI.
Development Approaches	Cycle en V, Agile : Scrum & Kanban. (Jira Software and Trello..)
Norms et Standards	Notions : AUTOSAR, ADAS & ISO26262.

LANGUAGES

English	Bilingual
French	Fluent
Arabic	Mother tongue

INTERESTS

Design and Editing	Photoshop & Premiere Pro
Athletic Activities	Calisthenics & Basket
Musical Instruments	Guitar & Bass