

# Smart Systems Engineer



#### WHO AM I?

I am a graduate of ENSIAS. My training has allowed me to acquire several skills in embedded systems, internet of things and web development through the completion of several academic and personal projects.

• Fes, Maroc.

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#### **EDUCATION**

2019 - 2022 Student in Smart Systems Engineering at ENSIAS

Ensias, Rabat

2017 - 2019 Student in Technology and Industrial Sciences at Preparatory Classes Omar Ibn Abdelaziz, Oujda

### **EXPERIENCE**

mars-août 2022 Stage PFE Web Developer

1000Kelvin GmbH, Berlin

Design and implementation of a GPU web-based application for the simulation of 3D printing

process.

ReactJS / BabylonJS / Vtk.js / CSR / SSR / CUDA

juillet-août 2021 Stage 2éme année **Desktop Developer** 

MAScIR Fondation, Rabat

Design and implementation of a desktop application for the extraction of 3D vehicle characteristics

using a stereo vision camera.

OpenCV / C++ / Python / Google Apps Script

août 2020 Stage 1er année Web Developer

University Hospital Center Hassan II, Fes

Implementation of a web application for monitoring the status of the servers.

Django / Python / HTML / CSS

# SIDE PROJECTS



#### **Pothole Locator System**

Travail réalisé: Design and implementation of a pothole localization and visualization system.

Technologies: MapBox / NodeJS / MongoDB / Pyhton / Raspberry PI / YOLO



#### Obstacle Avoidance System

**Travail réalisé**: Development of an obstacle avoidance robot using Reinforcement Machine Learning (1st prize of the CELEC competition in Artificial Intelligence). **Technologies**: Arduino / Q Learning Algorithm / TinyML



#### **Cracks Detector in Train Rails**

**Travail réalisé**: Implementation of a Machine Learning Binary Classifier to monitor the condition of rails in order to automate their maintenance.

Technologies: Python / Keras / Pandas / Kaggle

#### LANGUAGES

**English** - Professional **French** - Professional **Arabic** - Native

#### **HOBBIES**

Problem solving Football Gaming

## **VOLUNTEERING**

Active member of the CINDH volunteering club of ENSIAS