

# ZAKARIAE HAMEDOUN

Senior year in Smart Systems Engineering at ENSIAS

'Every day, bring something new and different to the world ' I find this quote motivating to me, as i like learning new things that I never could have imagined then dive into comprehending it .



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## EDUCATION

### Smart Systemes Engineering ENSIAS

09/2019 - 07/2022

City : Rabat

#### Courses

- ARM processors
- Machine Learning
- AR/VR
- Mobile developement
- Distributed systems
- Networking

### Preparatory classes CPGE Omar Ibn Abdelaziz

09/2017 - 07/2019

City : Oujda

#### Courses

- Algebra/Analytics
- Mechanics
- Python / SQL
- Electricity

## PROFESSIONAL PROJECTS

### Artificial Intelligence Intern MAScIR Foundation

07/2021 - Present

City : Rabat

The Moroccan Foundation for Advanced Science, Innovation and Research

#### Achievements/Tasks

- Creation of an annotated dataset and a machine learning model for the recognition of the make and model of vehicles.
- Computer Vision / Stereo Vision
- 3D modelisation with Blender
- Tools : C++, OpenCV, Qt, Google sheets, JS

### Web Developer intern CHU Fes

08/2020 - 09/2020

Hassan 2 Hospital Center

City : Fes

#### Achievements/Tasks

- Building a Web Application where we can monitor the state of CHU servers in real-time.
- Asynchronous HTTPS Requests.
- Python, Django, HTML, CSS.

## ORGANIZATIONS

National Human Development Initiative Club

Active Member

ENSIAS Robotics Club

Former

## SKILLS

C/C++

Python

OpenCV

Java

Adobe Premiere

Adobe illustrator

Blender

Computer Vision

## ACADEMIC PROJECTS

Visual Question Answering (DL & NLP) (05/2021 - Present)

- Respond to text-based questions on images
- Natural Language Processing & Computer Vision in one Place
- Reasearch & Developement

Obstacle avoidance using Q Learning (03/2021 - 03/2021)

- It was an AI competition where a robot car should learn to avoid obstacles based on its environment and using Q learning Algorithm
- Embedded Machine Learning

Handling Train Derailment problem using Deep learning  
(08/2020 - 10/2020)

- Data Science Workflow
- CNN / Transfer Learning : ResNet, MobileNet
- PYTHON / pandas / Keras
- Team work / Kaggle / LaTeX

Java Desktop Application (04/2020 - 05/2020)

- Bank Management System
- JAVA / SWING

## CERTIFICATES / AWARDS

Python for Data science (05/2020 - Present)

Alphorm : ID 619651397

First Prize in an AI Competition (05/2021 - 05/2021)

Team work, Clean code, Simplicity

Second Prize in Redal's Trophy of innovation (06/2021 - 06/2021)

Team work, public speaking, Problem solving

## LANGUAGES

English

Professional Working Proficiency

Frensh

Professional Working Proficiency

Deutsch

Elementary Proficiency

Arabic

Native or Bilingual Proficiency

## INTERESTS

Football ⚽

Design

Tripping

Entrepreneurship