DODO MAMANE ABARI

Embedded systems/Machine learning/computer vision

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France, Lyon

abari111.github.io/



EXPERIENCE

Machine learning Engineer intern

Segula Technology

Apr 2023 - Oct 2023

Cherbourg, France

- Development of AI and HMI models for an energy management system on board a hybrid sailboat
- Reduction of uncertainties related to meteorological data
- Energy consumption profile
- · Incremental learning, Reinforcement learning
- Python , PyTorch , Scikit-learn , API

Computer vision And IoT engineer intern

Expleo Group

Fev 2022 - Août 2022

■ Tanger, Maroc

- Implementation of an intelligent traffic monitoring system based on computer vision.
- Accident detection, traffic jam detection
- Python , PyTorch , OpenCV , Edge AI C++

Al and Image processing intern

Laboratoire SIGER

Août 2021 - Oct 2021

Fes , Maroc

- Automatic detection of road accidents using AI algorithms and image processing.
- Proposal of accident detection algorithms in videos.
- Extraction of accident sequences in videos.
- Implementation of the proposed algorithms.
- Python , PyTorch , OpenCV , Deep Sort Yolo

Embedded Software intern

ENSA

Juil 2020 - Aout 2020

Fès, Maroc

- Familiarization with the Arducopter autopilot system.
- Scripting for automating source code compilation and adaptation for APM 2.0 and PixHawk1 targets.
- Modification and testing of code sections related to PID (Proportional-Integral-Derivative) control.
- Python , C++ , OpenCV bash

PROJECT

Detection of Diabetic Retinopathy

Design and development of a smartphone-based system for early screening and diagnostic assistance in diabetic retinopathy (DR).



Designing a digital system for monitoring the number of people in a space using VHDL (FPGA).

ItinyTesla

Designing an autonomous vehicle with Raspberry Pi capable of avoiding obstacles and recognizing traffic signs.

LIFE PHILOSOPHY

"Accept the past for what it was. Acknowledge the present for what it is. Anticipate the future for what it can become.."

EDUCATION

Master's degree in Artificial Intelligence

Université Claude Bernard Lyon 1

Embedded systems State engineer degree

Ecole Nationale des Sciences Appliquées (ENSA)

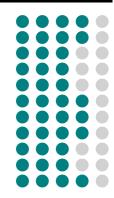
Bac Scientifique série C (math) École de l'amitié nigero-turque

ä Jui 2017

Niamey, Niger

TECHNICAL STRENGTH

PyTorch, Python
Embedded C/C++
C,C++
STM32/ARM Cortex M
Embedded AI
OpenCV
Git, GitHub
Embedded systems
FreeRTOS
Yocto,Buildroot



STRENGTHS

Technology foresight

Problem solving

Critical thinking

Linux, Bash,git

LANGUAGES

English Français

