

DODO MAMANE ABARI

Embedded systems/Machine learning/computer vision

 dodo.mamane.abari@gmail.com  +33605564616  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++

AI 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).
-  **SysCov**
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

 Oct 2022 - Aug 2023  Lyon , France

Embedded systems State engineer degree

Ecole Nationale des Sciences Appliquées (ENSA)

 Sept 2020 - Aug 2021  Fès , Maroc

Bac Scientifique série C (math)

École de l'amitié nigero-turque

 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	●	●	●	●	●
Linux, Bash,git	●	●	●	●	●

STRENGTHS

- Technology foresight
- Problem solving
- Critical thinking

LANGUAGES

English	●	●	●	●	●
Français	●	●	●	●	●