

Diego Navarro

Artificial perception and robotics

DN

PhD student in automation, signal and image processing. My skill set is varied; I am mainly interested in projects that concern artificial intelligence, computer vision and the integration of these disciplines in the control of robotic systems.

FORMATIONS & EXPERIENCES

PhD AUTOMATION AND SIGNAL TREATMENT

Université Côte d'Azur / France/ 2021 (En cours)

PhD thesis on **precise localization and control** of unmanned aerial vehicles for structure inspection. Mostly focused on the **improvement and implementation of new artificial perception** techniques to ensure the automatic operability of multirotor drones at proximity to structures.

ROS DEVELOPPER

SHERPA Engineering / Nanterre / Mars 2021 / 6 months

Integration/development in a framework integrating simulator + real drone of **Control/planning/perception** algorithms in a **PX4/ROS-Gazebo** environment for carrying out a mission in autonomous mode (focus on autonomous landing).

AI DEVELOPPER

Institut Pascal / Clermont-Ferrand / Mars 2020 / 6 mois

Development of **Python** scripts for object detection using **machine learning**. Study of the conditions necessary for the **addition of new classes in a detection model** and development of tools for **data augmentation**.

MASTER AR-ARTIFICIAL PERCEPTION & ROBOTICS

Université Clermont Auvergne / France/ 2019 - 2021

Master with a multidisciplinary approach (mechanics, automation, industrial IT, vision and electronics) in the field of automated systems.

Rank : 1/23 Mention : Bien

PLC PROGRAMMER

Brose / Mexico / September 2018 / 1 an

Updating **control** algorithms; modification on demand of assembly stations **and diagnosis of faults** in production lines in **the automotive sector**.

AUTOMATION BACHELOR OF ENGINEERING

Universidad Tecnológica de Querétaro / Mexico/2016 - 2018

Oriented to the industrial application of knowledge within a company, consisting of one and a half years of study and work at the same time.

Rank : 1/52 Mention : Bien

SKILLS

SOFTWARE

Solid Works
TIA Portal
MATLAB
CGAL
Python

Visual Basic
OpenCV
LabVIEW
C++
ROS

TECHNIC

Mechanic design
Microcontroller & PLC programming
Machine learning basis
Computer Vision applied in industry
Maintenance & diagnosis in industrial machinery

LANGUAGE

French – B2: Test TCF (2015) Bilingual
English – B2: Everyday communication.
Spanish – Native

CONTACT



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