



# FRANCISCO JAVIER GUILLÉN NAVARRO

## Aerospace Engineer

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## About me

I am an Aeronautical Engineer passionate about technology and especially interested in programming, software development and artificial intelligence. Self-taught and proactive, I am always willing to learn new skills and acquire knowledge in several fields.

## Languages

**Spanish:** native

**English:** intermediate

## Skills

Python (top 0.8% CodeAbbey)

Git/Github/SVN

Matlab/Simulink

Tensorflow/keras

numpy, pandas, matplotlib, scipy,

sklearn, opencv

Windows/Linux

VSCode, Jupyter, Google Colab

## Experience

### Consultant Engineer

#### Airbus DS (via Aertec Solutions) - Madrid

April 2022 - on going

- Industrialization of functional tests.
- Automate test development and ensure test and model quality by scripting in Matlab and Python.
- Support in the innovation area with proposals and elaboration of solutions.

### Artificial Intelligence Researcher

#### Kerox Technology - Madrid

April 2021 - August 2021

- Internship on the study of Artificial Intelligence algorithms, focused on computer vision.
- Use of tools such as numpy, pandas, sklearn, matplotlib, tensorflow/keras, git/github, Visual Studio Code and Google Colab.
- Search of information and databases. Data loading and cleaning. Preprocessing.
- Selection and training of different models.

### Systems Engineer

#### ISDEFE - Madrid

December 2019 - August 2020

- Work grant in Systems Engineering and Air Traffic Management.
- Safety requirements specifications and validation.
- European regulations and standards applicable to safety.

## Education

### M.S. Aeronautical Engineering.

#### Polytechnic University of Madrid

September 2019 - March 2022

- **Speciality:** Space Vehicles
- **Master's Thesis:** Detection of heart diseases using artificial intelligence algorithms

### B.S. Aerospace Engineering.

#### Polytechnic University of Madrid

September 2015 - July 2019

- **Speciality:** Aerospace Propulsion
- **Bachelor's Thesis:** Preliminary Design of a Hybrid Propellant Rocket Engine

## Certificates

- Machine Learning Certificate by DeepLearning.ai
- Neural Network & Deep Learning Certificate by Stanford University