



José Miguel Álvarez Romero

Ph.D. in Aerospace Engineering, M.Sc. in Space Systems, and graduate in Aerospace Engineering from the *Universidad Politécnica de Madrid*, passionate about doing something in my life that could have a great impact on others.

Education

Ph.D. In Aerospace Engineering IDR/UPM

Thesis dissertation "System engineering for concurrent design of in orbit technological demonstrators". 10/2018 - 02/2023

International stay at the Alma Mater Studiorum Università di Bologna, Forlì Campus.

M.Sc. In Space Systems (MUSE) IDR/UPM

Thesis dissertation: "Develop of a satellite configuration software for a concurrent design facility". 09/2016 - 07/2018

Space systems to project management, Space environment, Space graphic design, Space structures, research projects...

Degree In Aerospace Engineering UPM

Thesis dissertation: "Satellite structure preliminary design". 09/2011 - 06/2016

Aerodynamics and Aeroelasticity, Aerospace materials, Space vehicles, Graphic design, Aerospace Structures, Programming...

Work experience

Postgraduate Researcher IDR/UPM

MARTINLARA Project. Development of a platform based on CubeSat technology to test space payloads. 06/2019 - Present

NANOSTAR Project. Collaborative platform to support the training and development of nanosatellites through Student Challenges.

UPMSat-2 Satellite. Tracking engineer at the ground station.

HERCCULES & TASEC-LAB. Satellites developed with the objective of characterizing the heat exchange by convection in stratospheric balloons. HERCCULES is an experiment in a stratospheric balloon selected in the REXUS/BEXUS program.

AD-ASTRA. Design, creation, and maintenance of different outreach tasks.

Ph.D. Candidate Researcher IDR/UPM

Development of the Concurrent Design Facility specialized in space platform. System engineer at several CDF design sessions. 10/2018 - 05/2019

Researcher Internship IDR/UPM

Development of the UPMSat-2 communications subsystem, as well as other task related to programming and design focused on a Concurrent Design Facility (CDF). 10/2017 - 09/2018

Junior Technical Consultant Capgemini Engineering

Projects at the Aerospace I+D Department: Design of a space satellite constellation, Design of space and aeronautical CATIA models for CFD and FEM, VBA programming... 10/2016 - 09/2017

Transversal Education

Formative Courses IDR/UPM

Training in integration and routing of a satellite in a clean room (6h + 3h).

Use of CATIA and ESATAN-TMS for space design (6h + 5h).

Training in the use of the CDF (Concurrent Design Facility) (6h).

Contact

josemialvarezromero@gmail.com

+34 678 96 92 03

Languages

Spanish Native

English TOEIC (B2)
Scholarship program languages (C1)

French Official school of languages (B1)

Italian Experience (A2)

IT Skills

CATIA

PATRAN/NASTRAN

MATLAB/Simulink

Python

GMAT

VBA

STK

ESATAN-TMS

Other Relevant Activities

Teaching in the Master's Degree in Space Systems (130 h).

In Graphic Engineering for Aerospace Mechanical Design; Systems Engineering and Project Management; and Space Structures.

Copyright Software registration of a Concurrent Engineering software.

Concurrent Design Application (CDA).

LinkedIn:

