



Roberto Pastor Muela

Software Developer

- 25 April 1995
- Madrid, Spain
- +34 671 22 66 52
- RobPasMue
- <https://www.linkedin.com/in/RobertoPastorMuela>
- roberpm1995@gmail.com

About me

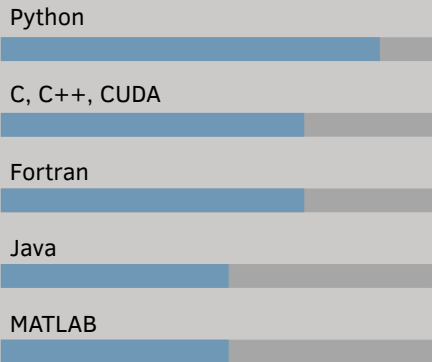
Aerospace engineer with a main focus on SW development. My main interests are related to numerical simulations, CFD, flight dynamics systems and astrodynamics. SW architect and developer in computationally-intensive programming languages. Great interest on algorithms and the physical knowledge behind them.

Language Skills

Spanish:	Mother tongue
English:	C1*
German:	B2*
French:	A2*

**According to the Common European Framework of Reference for Languages (CEFR)*

Programming Skills



CV was last updated on January 13, 2026

Experience

- 2025/-** Staff R&D Engineer *Synopsys*
As a result of the acquisition of ANSYS by Synopsys. Continuing my work on the development of PyAnsys open-source libraries and contributing to the technological transformation of business units.
- 2022/25** Senior R&D Engineer *ANSYS*
Development of ANSYS SW products and supporting systems. Open-source PyAnsys libraries development. Technological transformation of business units. Software architect for Python projects, driven by usability, customer feedback and automation. GitOps lead for PyAnsys ecosystem teams. Code best-practices and tools guidelines (focused on Python and C/C++). Provided guidance on client-service interactions using REST and gRPC protocols. Product componentization using Docker and service deployment on Kubernetes clusters. Conception of a developer portal PoC using Backstage.
- 2019/22** Flight Dynamics (FD) and Operations engineer *GMV*
Precise orbit determination (POD) engineer in projects for institutional clients - Copernicus POD Service (for Sentinels 1, 2, 3 & 6). Experience in FD softwares (SWs) - NAPEOS, SIRIUS, Orekit, GODOT. SW architect and developer of in-house FD library in C++. CI/CD Responsible. Working with Agile methodologies. Knowledge on GNSS systems and signals processing. Design & impl. of API REST servers.
- 2017** Processing, automatization and development *Airbus Def. & Sp.*
Development & automatization of qualification tests for rotary actuators used in antenna pointing mechanisms. Post-processing of data to determine system capabilities and requirements verification.

Education

- 2017/19** M.Sc. Aeronautical Engineering *UC3M*
Focus on CFD, space systems and numerical simulations
Master thesis: *Analysis and control of turbulent skin friction using GPU-DNS*
- 2015/16** B.Sc. Aerospace Engineering *Universität Stuttgart*
ERASMUS+ Exchange program
- 2013/17** B.Sc. Aerospace Engineering *UC3M*
Minor in Aerospace Propulsion
Bachelor thesis: *Improvement of real-time plasma diagnostics*

Additional Courses

2024	Management Essentials	40h
2023	Go: The Complete Developer's Guide (Golang)	20h
2019	Java Programming Masterclass for SW Developers	80h
2019	C++ Basics and Introduction to C	25h

Awards

- 2015/16** ERASMUS+ Exchange Program scholarship - 1 full academic year at the Universität Stuttgart
- 2013/18** Modules with honours: Propulsion Systems, Engineering Graphics, Advanced Mathematics, Fluid Mechanics, Thermal Engineering (6 ECTS each) and Aerospace Project Management (3 ECTS)
- 2013/15** "Excellent academic record" scholarship for university students

Interests

I am a very active person who performs regularly multiple team sports, such as football and rugby. I also enjoy travelling and getting to know different cultures, since I consider it a mind-opening experience. I also enjoy living abroad (+6 years over my life).