



# Roberto Pastor Muela

## Software Developer



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Madrid, Spain



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RobPasMue



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### About me

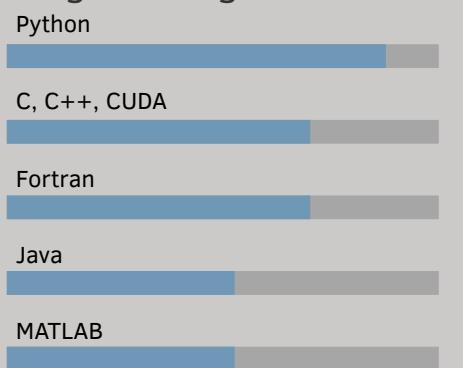
Aerospace engineer with a main focus on SW development. My main interests are related to numerical simulations, CFD, flight dynamics systems and astrodynamics. SW architect and developer in computationally-intensive programming languages. Great interest on algorithms and the physical knowledge behind 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, GODOF. 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: <i>Analysis and control of turbulent skin friction using GPU-DNS</i>	
2015/16	B.Sc. Aerospace Engineering	Universität Stuttgart
	ERASMUS+ Exchange program	
2013/17	B.Sc. Aerospace Engineering	UC3M
	Minor in Aerospace Propulsion Bachelor thesis: <i>Improvement of real-time plasma diagnostics</i>	

### 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).