

Carlos Campos Martínez

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EDUCATION	PhD in Computer Vision. Visual-Inertial SLAM	Nov 17 - Now
	<i>Supervised by professor Juan D. Tardos Universidad de Zaragoza (U.Z.), Spain</i>	
	MSc in Electronics and Signal Processing	Sept 15 - Sept 17
	<i>ENSEEIH, Institut National Polytechnique, Toulouse, France</i>	
	MSc in Industrial Engineering	Sept 14 - Dec 16
	<i>Universidad de Zaragoza (U.Z.), Spain</i>	
	BSc in Industrial Engineering	Sept 10 - Sept 14
	<i>Universidad de Zaragoza (U.Z.), Spain</i>	
EXPERIENCE	Researcher in Computer Vision, U.Z.	Jan 18 - Now
	Research and Development of new initialization methods for visual-inertial SLAM. Development of ORB-SLAM3, a multi-sensor and multi-map SLAM system, for AR-VR applications based on features and non-linear optimization. Theoretical research, software development and hardware verification on real cases	
	Internship, BSH and U.Z.	July 16 - Aug 16 and Mar 17 - Sept 17
	Development of new control techniques for iterative electromechanical devices, based on Bayesian Optimization, Pattern-Search and simplex methods. Microcontroller programming and test on real devices	
	Scholarship sponsored by BSH for Bachelor Thesis	May 14 - Sept 14
	Study of new capacitive sensors for pot detection in induction appliances, using Finite Element Method. Microcontroller programming.	
TECHNICAL SKILLS	Programming : C++, Python, Matlab	
	Electronics : Microcontrollers (C++), FPGA (VHDL)	
	Languages:	
	<ul style="list-style-type: none">• English C1 (advanced) from Cambridge and TOEIC• French: B2 (upper intermediate) from DELF• Spanish: Native speaker	
	Strong mathematical background applied to computer vision, signal processing and control engineering. Knowledge and understand of main machine learning techniques for computer vision.	
PUBLICATIONS AND LICENSES	ORB-SLAM3: An Accurate Open-Source Library for Visual, Visual-Inertial and Multi-Map SLAM	Jul 20
	<i>ArXiv preprint Carlos Campos, Richard Elvira, Juan J. Gómez Rodríguez, José M. M. Montiel, Juan D. Tardós</i>	
	Inertial-Only Optimization for Visual-Inertial Initialization	May 20
	<i>International Conference on Robotics and Automation (ICRA), 2020 Carlos Campos, J.M.M. Montiel and Juan D. Tardós</i>	
	Software ORB-SLAM Stereo-Inertial	Nov 19
	<i>Licensed Carlos Campos, Richard Elvira, J.M.M. Montiel and Juan D. Tardós</i>	

Fast and Robust Initialization for Visual-Inertial SLAM
International Conference on Robotics and Automation (ICRA), 2019
Carlos Campos, J.M.M. Montiel and Juan D. Tardós

May 19

**ADDITIONAL
ACTIVITIES**

- Assistant teacher for Computer Vision practical classes at Universidad de Zaragoza, February 2020-May 2020
- Technical assistance for ORB-SLAM Visual-Inertial, Oppo Mobile Telecommunications Corp. Ltd., February 2019-February 2020
- Technical assistance for ORB-SLAM2, Voca AS, January 2019-January 2020
- Technical consulting services in visual and visual-inertial SLAM technology, Huawei Technologies CO, Ltd. , June 2018-June 2020
- Erasmus exchange at INP Toulouse, France, September 2015 - June 2016 (Awarded with grant from regional bank *Ibercaja*)
- Erasmus exchange at Université de Pau, France, September 2013 - February 2014 (Awarded with grant from regional bank *Ibercaja*)
- Fourth classified at the Regional Mathematical Olympiad 2010 (<http://ttm.unizar.es/olimpiada/ganadores.html#2010>)