Federico Martin Roasio | Resume

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Education

2007–2013	**Electronic Engineer**, *School of Engineering, University of Buenos aires*, Buenos Aires, Argentina, *GPA Equivalent – 3.92* Elegible for Gold Medal and Honorary Diploma

Thesis

Title	*Integrated Navigation Systems applied to Unmaned Aerial Vehicles*
Supervisor	PhD. Juan Ignacio Giribet
Description	The thesis was focused on the design, simulation, implementation and validation of a GPS/INS integrated navigation system applied to unmanned aerial vehicles.

Experience

2012–Present	**Signal Processing, System Identification and Automatic Control Theory Lab**, SCHOOL OF ENGINEERING, UNIVERSITY OF BUENOS AIRES Reasearch assistant and developer in aerospace applications. Duties: ○ GN&C researcher and developer for CoNAE's VEx series of suborbital rockets, under a collaboration agreement between CoNAE and GPSIC-FIUBA.
2013–Present	**Oneloop Digital Agency**, Oneloop is a fast growing startup software company focused on real-estate web apps. Duties: ○ Software Arquitect. ○ Backend and Frontend Web developer. ○ UX developer.
2011–2013	**Embedded Systems Lab**, SCHOOL OF ENGINEERING, UNIVERSITY OF BUENOS AIRES Teaching assistant, research assistant and developer in microcontroller applications. Duties: ○ Firmware Validation for NXP Semiconductors USA unreleased products. ○ Teaching assistant at Introduction to Embedded Systems. ○ Teaching assistant at Introduction to Real Time Operative Systems. ○ Teaching assistant at Introduction to C Programming Language. ○ Teaching assistant at Communication Protocols for Embedded Systems.

Language

Spanish	**Mother Tongue**	
English	**Advanced**	*First Certificate in English – Grade A*
Deutsch	**Basic**	*A1 Level*

Skills

Basic	Pascal, Visual Basic, Ruby, AutoCAD, CAD/CAM, Agile Development
Intermedio	PYTHON, javascript, jQuery, MySQL, HTML5, CSS3, Embedded Linux, PCB Design
Avanzado	C/C++, PHP, Matlab/Octave, Git, Mercurial, ARM Microcontrollers, RTOS, LaTeX

Scholarships and Awards

2012-2013	Scholarship awarded by the National Agency for Promotion of Science and Technology (Becas TICs, ANPCyT).
2012	Schorlarship awarded by Texas Instruments Inc. to assist to Tech Day São Paulo 2012.
2012	Certificate of Recognition from NXP Semiconductors USA, Microcontroller Business Lines.
2001-2006	Argentine representative of international mathematics tournaments, like the International Mathematics Tournament of the Towns, the Asian Pacific Mathematics Olympiad and Olimpíada de Mayo. Preselected as representative of the Iberoamerican Mathematical Olympiad and the International Mathematical Olympiad. National and Regional Distinctions in the Argentine Mathematical Olympiads.

Publications

2012	Graphical User Interface Library for low cost embedded systems. ETC2012 (Costa Rica).
2012	Design and Implementation of an unmanned Quadcopter, CASE 2012.
2012	Graphical User Interfaces for Embedded Systems with Real Time Operative Systems, CASE 2012.
2011	Graphical User Interface for LPC17XX, Application Note for NXP Semiconductors USA.