

# Federico Martin Roasio | Resume

Argentine and Italian Citizenship  
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## Education

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

### Thesis

Title *Integrated Navigation Systems applied to Unmanned 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

- 2015–Present **Senior Software Engineer**, SUMAPROP - ONELOOP DIGITAL AGENCY  
Sumaprop is the #1 Real Estate CRM in Argentina, currently expanding to Latin America.
- Duties:
- Project Management using Agile Methodologies. Scrum and Kanban.
  - Fullstack web developer. PHP, AngularJS and jQuery, MySQL.
  - Cloud computing infrastructure maintenance in Rackspace. Cloud Servers, DNS and CDN services.
  - Analytics and Customer Engagement implementation. Mixpanel, Intercom, Google Analytics.
- 2014–Present **Graduate Teaching Assistant**, SCHOOL OF ENGINEERING, UNIVERSITY OF BUENOS AIRES  
Graduate Teaching Assistant in Algorithms and Programming I.
- Duties:
- Practical classes for the resolution of exercises on algorithms, programming in C language and good software design practices.
- 2012–Present **Guidance, Navigation and Control Researcher and Developer**, SIGNAL PROCESSING, SYSTEM IDENTIFICATION AND AUTOMATIC CONTROL THEORY LAB, UNIVERSITY OF BUENOS AIRES  
Research 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.

2014–Present **Co-Founder**, CONDOR IT

Condor IT is a recently born software house. Founded by a group of high talented computer science engineers its main target is to become a local reference in software design and development.

Duties:

- Project definition, planning and quotation, customer support.
- Fullstack software developer. Java (Play Framework), Angular JS, Amazon Web Services.

2014–2015 **Automation Engineer**, TENARIS

Automation Engineer focused in design and development of new robotic cells to automate steel pipes manufacturing industry.

Duties:

- Analysis of industrial processes and its possible enhancements by means of robotics cells.
- Design, simulation and development of robotic cells projects.
- Intensive training as a member of the Global Trainee Program of the company.

2013–2014 **Software Engineer**, ONELOOP DIGITAL AGENCY

Onelooop is a fast growing startup software company focused on real-estate web apps.

Duties:

- Software Architect.
- Backend and Frontend Web developer.
- UI developer.

2011–2013 **Teaching assistant, research assistant and developer**, EMBEDDED SYSTEMS LAB, 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	Java, Play! Framework, Ruby, AutoCAD, PCB Design
Intermedio	PYTHON, javascript, jQuery, MySQL, HTML5, CSS3, Embedded Linux, Agile Development, TDD
Avanzado	C/C++, PHP, Matlab/Octave, Git, Mercurial, ARM Microcontrollers, RTOS, L <sup>A</sup> T <sub>E</sub> X

## Scholarships and Awards

2014 Best graduate of Engineering Careers from the University of Buenos Aires, National Academy of Engineering, Argentina

- 2013 2nd prize to the best graduate thesis in Engineering, "Premio Pre Ingeniería 2013", Argentine Center of Engineers
- 2012-2013 Scholarship awarded by the National Agency for Promotion of Science and Technology (Becas TICs, ANPCyT).
- 2012 Scholarship 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.

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## Publications

- 2014 Navigation, Guidance and Control Computer Design: An application to Unmanned Aerial Vehicles. JAR 2014 (Argentina).
- 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.