

CURRICULUM VITAE

Masmitja Rusiñol, Ivan

Born May 28, 1985

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EDUCATION

- Master's Degree in Electrical Engineering. Barcelona School of Telecommunications Engineering – Polytechnic University of Catalonia (ETSETB - UPC). 2010-2013
- Degree in Telecommunications Engineering in Electrical Systems. Vilanova i la Geltrú Engineering School – Polytechnic University of Catalonia (EPSEVG – UPC). 2007-2010

ADDITIONAL EDUCATION

- PLOCAN Glider School
Oceanic Platform of the Canary Islands (PLOCAN) - Spain
November 17, 2014
PLOCAN Consortium
- Summer School on Distributed Data of Conference Acquisition Systems
Vilanova i la Geltrú - Spain
July 15, 2013
Polytechnic University of Catalonia
- Pre-Degree in Design and Development of Electrical Products
Ripoll - Spain
2005-2007
Eduard Soler Foundation (FES)

LANGUAGE SKILLS

- Catalan / Spanish: Native language
- English: B2 (Common European Framework of Reference for Languages)

COMPUTER SKILLS

- Advanced knowledge of Microsoft Windows, Linux, uClinux (Embedded systems), and Office package, OpenOffice, AdobePdf
- Programming languages: LabView, C/C++, VHDL, Matlab
- Programming platforms: Microcontrollers 68k/ColdFire of 32 bits, Acquisition platform DAQ PCI6024, microcontrollers PIC* and dsPIC of Microchip, microcontrollers LUMINARI of Texas Instruments and microcontrollers R8C2425 of Renesas.
- Communications Protocols: RS232, RS485, TCP-IP, UDP, SNMP, Profibus, Ethernet, CAN, USB.
- Technical software: LabView, Pspice, Matlab, Altium, IAR Embedded Workbench, Simulink, CodeWarrior, IDE, ModelSim, Xilinx, MPLAB, NX6 3D.

PROFESSIONAL BACKGROUND

2011 – Present. Research Engineer

Organization: Polytechnic University of Catalonia – SARTI research group

HONORS AND AWARDS

- Graduated with a first class honors degree in Telecommunications Engineering in Electrical Systems. Polytechnic University of Catalonia (UPC), 2010
- Awarded with a UPC grant for the degree thesis in Telecommunications Engineering in Electrical Systems. Polytechnic University of Catalonia (UPC), 2010
- Graduated with a first class honors master's degree in Electrical Engineering. Polytechnic University of Catalonia (UPC), 2013
- Awarded with a LEAR Corporation grant for a first class master's degree in Electrical Engineering. UPC), Polytechnic University of Catalonia (UPC), 2013

- Finalist in a Student Poster Competition OCEANS'14 MTS/IEEE Conference. Taipei, 2014
- Finalist in a Student Poster Competition SEA TECH WEEK – SSCO/IEEE Conference. Brest, 2014
- Ministry of Economy and Finance grant for technical support (*Subprograma Personal Técnico de Apoyo - PTA*). Polytechnic University of Catalonia – SARTI Research group. 2013 - 2016

JOURNALS AND MAGAZINES PUBLICATIONS

- Gomariz, S; **Masmitja, I**; Gonzalez, J; Masmitja, G; Prats, J. “GUANAY-II: an autonomous underwater vehicle for vertical/horizontal sampling” Journal of marine science and Technology. ISSN: 0948-4280. January, 2014
- **Masmitja, I**; Gonzalez, J; Masmitja, G; Gomariz, S; del Rio, J. “Power System of the Guanay II AUV”. ACTA IMEKO. ISSN: 2221-870X. January, 2014
- 9 publications in less impact journals. Instrumentation Viewpoint. ISSN: 1697-2562. Since 2010

CONFERENCE PUBLICATIONS

- Authors: **Masmitja, I.**; Gonzalez, J; Gomariz, S
Title: Buoyancy model for Guanay II AUV
Conference: OCEANS '14 MTS/IEEE Taipei
Date of Conference: April 7, 2014
Place: Taipei, Taiwan
- Authors: **Masmitja, I.**; Gonzalez, J; Masmitja, G; Gomariz, S; del Río, J
Title: Measuring system and power management of the Guanay II AUV
Conference: 2013 IMEKO TC-4 19th Symposium on Measurements of Electrical Quantities
Date of Conference: July 18, 2014
Place: Barcelona, Spain
- Authors: **Masmitja, I.**; del Río, J; Damborenea, J; Conde, A
Title: Underwater potentiostat for real-time electrochemical corrosion measurements
Conference: Sea Tech Week, SSCO – IEEE Sensor Systems for a Changing Ocean

Date of Conference: October 15, 2014

Place: Brest, France

- Authors: Gonzalez, J; **Masmitja, I.**; Batlle, A; Gomariz, S; Llorens, A
Title: Linear control of the yaw and rudder limitations for Cormoran AUV
Conference: MARTECH – International Workshop on Marine Technology
Date of Conference: October 11, 2013
Place: Girona, Spain
- Authors: **Masmitja, I.**; Gonzalez, J; Gomariz, S; Prat, J; del Río, J
Title: Latest contributions to Guanay II
Conference: MARTECH – International Workshop on Marine Technology
Date of Conference: October 11, 2013
Place: Girona, Spain
- Authors: J González, **I. Masmitja**, S Gomariz, E Molino, J Del Río, A Mànuel, J Busquets, A Guerrero, F López, M Carreras, D Ribas, A Carrera, C Candela, P Ridao, J Sousa, P Calado, J Pinto, A Sousa, R Martins, D Borrajo, A Olaya, B Garau, I González, S Torres, K Rajan, M McCann, J Gilabert
Title: AUV based multi-vehicle collaboration: Salinity studies in Mar Menor coastal lagoon
Conference: IFAC Workshop on Navigation, Guidance and Control of Underwater Vehicles
Date of Conference: April 10, 2012
Place: Oporto, Portugal
- Authors: Gomariz, S; Gonzalez, J; Arbos, A; **Masmitja, I.**; Masmitja, G; Prat, J
Title: Design and construction of the GUANAY-II autonomous underwater vehicle
Conference: OCEANS, IEEE
Date of Conference: June 6, 2011
Place: Santander, Spain
- Authors: **Masmitja, I.**; Masmitja, G; Gonzalez, J; Shariat-Panahi, S; Gomariz, S
Title: Development of a control system for an Autonomous Underwater Vehicle
Conference: Autonomous Underwater Vehicles (AUV), IEEE/OES
Date of Conference: September 1, 2010
Place: Monterey, CA