

PERSONAL INFORMATION

Marcello Valdatta



📍 Via Bilegno 55, 29011 Borgonovo V.T. (PC) (Italy)

☎ +39 3492982590 📱

✉ marcello.valdatta@gmail.com

🔗 <https://it.linkedin.com/in/marcellovaldatta>

💬 Skype marcello_valdatta

Sex Male | Date of birth 31 May 1984 | Nationality Italian

WORK EXPERIENCE

5 Sep 2012–Present

Space Systems R&D developer

NPC - New product concept / "Spacemind" R&D division, Imola (Italy)

Research and development of innovative cubesat (small satellite) electronics, components and structure, prototype development assembling integration and testing. Mission concept design and planning, preparation of technical documents and reports, risk evaluation. Presenting the products in international conferences and in scientific papers, searching and maintaining relations with possible customers, investors and stakeholders.

8 Mar 2014–Present

Manned Analogue Mars Mission. Vice Team Leader of Flight Plan Team; Manned mission Support /Control

HI-SEAS Mission (Hawaii Space Exploration and Analog Simulation) / Austrian Space Forum, Remote system / Innsbruck

Voluntarily participating in mission control and support of two projects:

- HI-SEAS mission - a series of simulated Mars missions, held by Hawaii University and sponsored by NASA: preparing and maintaining operation procedures, EVA revising and approval, keeping contact with Crew and STS (Second Tier Support) on issues of the mission.

- Austrian Space Forum Amadee15 mission - a European manned simulated Mars mission held by Austrian Space Forum: participating in and sharing the management of the activity of flight plan team of mission support, scheduling daily activity of analogue astronauts and traverse plan.

Nov 2012–May 2014

Payload Manager

Unibo / Politechnique of Montreal / PolyOrbit

Part of the team of students that in cooperation with the Polytechnique of Montreal (through the technical society PolyOrbite) participated to the CSDC (Canadian Satellite Design Challenge), a student educational programme and competition of cubesat satellites. Management and Integration of the payload of the satellite Eleonora; attending: training, all reviews and vibration tests performed at David Florida Laboratory of Canadian Space Agency. Winner of the 3rd Prize.

20 Jun 2012–20 Sep 2012

UAV Avionic and Test Engineer (internship)

Space Science and Technology Institute of Lithuania - Lithuanian Space Association, Vilnius (Lithuania)

Internship under LLP Erasmus Placement Programme. Testing and validation of various avionic systems and components for UAV (Unmanned Aerial Vehicle), performing test UAV flights, pre and post flight data analysis.

Sep 2010–Jun 2013

Payload Engineer (ESA program REXUS/BEXUS)

Robotic Space Laboratory - University of Bologna (in cooperation with European Space Agency), Forlì (Italy)

Payload engineer, vice project manager and author of idea used for REDEMPTION - an in-microgravity experiment selected by ESA and flown on board REXUS12 rocket on 19 March 2012 from ESRANGE space center of Kiruna (Sweden), in the framework of REXUS/BEXUS Program. REDEMPTION experiment was designed to evaluate the feasibility of an Active Debris Removal system based on a polyurethane expanding foam. Attending the training, all reviews, test, integration and launch campaign.

Nov 2008–Sep 2012 **Developer**
 Space Robotic Laboratory / University of Bologna, Forlì (Italy)
 Member of Space Robotic research Group of University of Bologna.

Jun 2005–Aug 2010 **Promoter / Vendor**
 Alisport srl
 Promoter / vendor of ultra-light gliders, planes and other aeronautical company products for expos and fairs.

EDUCATION AND TRAINING

12 Dec 2014–14 Dec 2014 **Mission Support Center Workshop**
 Austrian Space Forum, Innsbruck (Austria)

7 Feb 2011–11 Feb 2011 **ESA Space Mission Training week**
 ESA (European Space Agency), O'pfaffenhofen (Germany)

2006–Present **Aerospace Engineering (studies on hold since 2010)** 1st Cycle Degree Programme (L)
 Faculty of Engineering (University of Bologna "Alma Mater Studiorum"), Forlì (FC) (Italy)
 Basic sciences and industrial engineering science, with particular focus on aeronautics and space. Member of the Space Robotics Group until its dissolution.
 UNISEC (University Space Engineering Consortium) Italian chapter representer and founding promotor.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Communication skills Excellent team work skills, gained during participation in various projects involving cooperation between various enterprises, universities, organizations. Negotiation and mediation skills.

Organisational / managerial skills Project management skills, team work organization and scheduling skills.

Digital competence MAC, Windows, Linux operating systems. Familiar with: MS Office Pack, Open Project, Project, Gantt C language, Visual Basic, Html, Matlab, XFOIL, Mplab, Solid Edge, Catia, Comsol, FEMAP, STK,

ESABASE.

Driving licence B

ADDITIONAL INFORMATION

Glider Pilot License (GPL)

Ultralight Pilot License (Engine and Motorglider abilitations) / Italian "Advanced Ultralight" Pilot License

- Awards**
- Winner the 3rd Mission Idea Contest, with the mission "Height Cloud Mission", 2nd UNISEC global meeting, Kytakyushu (Japan), 2014);
 - PreMIC (Pre Mission Idea Workshop) selected for UNISEC "6S Initiative (Satellite Schools Science Simple Space Students)". Tokyo, November 2013;
 - Finalist at 2nd Mission Idea Contest (4th UN-Japan Nanosatellite symposium, Nagoya, Japan, 2012);
 - 3rd Place at CSDC (Canadian Satellite Design Challenge) in affiliation with the Polytechnique of Montreal, 2012-2013;
 - EU Call SPINNER2013 with the project "SPACEMIND".

- Publications**
- 2 papers accepted for the 1st Symposium on Space Educational Activities (A573, F873) Padova, Italy November 2015
- Valdatta, Brucas, Tomkus, Ragauskas, Razgunas; "New parabolic flight platform for microgravity experiments"; A-149, 22nd ESA Symposium on European Rocket and Ballon Programmes and related Research. June 2015, Tromso, Norway
- Zalksek, Valdatta, Ostir, Hort, Marsetic, Bellini, Rastelli, Locarini, Naldi; "Cloud Height Mission"; Paper Winner the 3rd MISSION IDEA CONTEST, Tokyo 2014 2nd UNISEC global Meeting, Published on "Inventive Ideas for Micro/Nano-Satellites, the MIC3 report", pag. 1; IAA Books series - Small Satellites, Programs, Missions, Technological and applications. Sandau, Kawashima, Nakasuka, Sellers, ISBN 978-2-917761-38-0
- Valdatta, Bellini, Rastelli "ADR Mission with small satellite". Unisec 2nd Mission Idea Contest, 4th UN/Nanosatellite symposium - Nagoya 10-14/11/2012 - Published on "Innovative Ideas for Micro / Nano Satellite missions", IAA Books series - Small Satellites, Programs, Missions, Technological and applications. Sandau, Kawashima, Nakasuka, Sellers SKU:B042, ISBN: 978-2-917761-28-1
- Valdatta, Bellini, Rastelli, Piergentili, Santoni "Demonstration of feasibility of ADR mission using cubesat", IAA-B9-1407P, 9th IAA "Small Satellites for Earth observation"; IAA Book Series, Small Satellites - Programs Missions, Technologies and Applications. Editors: Sandau, Roser, Valenzuela ISBN 978-2-917761-32-8
- Bellini, Naldi, Rastelli, Valdatta "A.R.T.I.C.A. Deorbiting System: the new design and prototype of a compact deorbiting sail on board cubesat Ursa Maior", , IAC-15,A6,IP,30,x30649 IAC Jerusalem 2015
- Rastelli, Naldi, Valdatta, Bellini "Design and first prototype of an ALT-AZ mount for 1m class telescope for space debris tracking" IAC-15,A6,IP,31,x30646 IAC Jerusalem 2015
- Valdatta, Bellini, Locarini, Naldi, Rastelli; "A compact storage deorbiting sail for cubesat applications", IAC-14,A6,4,2,x25439 IAC Toronto 2014.
- Locarini, Bellini, Naldi, Rastelli, Valdatta, Fullum; "M.O.R.A.L.: design and prototyping of onemeter class telescope mount for space objects tracking" IAC-14,A6,7,7,x25436 IAC Toronto 2014
- Bellini, Locarini, Naldi, Rastelli, Valdatta, Piergentili; "A space debris cleaner kit based on polyurethane foam", IAC-13,A6,P,29.p1,x17013, 64th International Astronautical Congress, Beijing, China, 2013.
- Valdatta, Bellini, Rastelli, Naldi, Locarini; "Concept of a marketing mission using cubesat". 5th Nanosatellite Symposium, Tokyo 20 november 2013
- Piergentili, Bellini, Locarini, Naldi, Rastelli, Valdatta, Bagassi; "Fused deposition modeling techniques for manufacturing of cubesat based on modular design concept", IAC-13,C2,9,7,x17457, 64th International Astronautical Congress, Beijing, China 2013

Smyth, Bourbeau, Panerati, Bellini, Labbè, Buffet, Guay, Locarini, Naldi, Rastelli, Valdatta; "3U Cubesat for the Canadian Satellite Design Challenge: A Polytechnique of Montreal and University of Bologna cooperation." IAC-13, E2,3-V.4.4x18640, 64th International Astronautical Congress, Beijing, China 2013

Valdatta, Romei, Spadanuda, Toschi, Piattoni, Candini, Santoni, Piergentili; "Redemption: an experiment on sounding rocket to test a system for active debris removal - Rexus12". 21st ESA Symposium on European Rocket and Ballon Programmes and related Research. 9 / 13 June 2013, Thun, Switzerland A150 - Speaker

Rizzitelli, Bellini, Candini, Rastelli, Romei, Locarini, Spadanuda, Valdatta, Bagassi "Active Debris System based on polyurethane foam". 6th European conference on Space Debris ESA/ESOC 22/ 25 April 2013 Darmstadt, Germany 6a.P5 ID:2818781

Valdatta, Romei, Spadanuda, Toschi, Candini, Piattoni, Piergentili, Santoni "Inflatable system based on polyurethane foam", IAC-12, D1,1,12.p1,x15216, 63rd International Astronautical Congress, Naples 2012- Speaker

Toschi, Valdatta, Spadanuda, Romei, Piattoni, Candini, Santoni, Piergentili "Redemption: a student experiment proposing a solution to Active Debris Removal", IAC 12, E1,9,9,x14722, 63rd International Astronautical Congress, Naples 2012- Speaker

Piergentili, Candini, Piattoni, Romei, Spadanuda, Toschi, Valdatta, Santoni, "REDEMPTION: a microgravity experiment to test foam for space debris removal", IAC-11, A6,5,7,x11777, 62nd International Astronautical Congress, Cape Town, 3 -7 October 2011