

Pasquale Moliterni - Curriculum Vitae et Studiorum

Personal Information

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Born January 21, 1982 in Matera (Italy). Italian citizen.

Work Experience

Dates March 2014 - present

Name of employer **ApplicaMobile**, Matera (MT)

Position held **Algorithm Design and Development Engineer**

Main activities Development and optimization of radargrammetric and interferometric processing algorithms for DEM generation using COSMO SkyMed data - CRESO research programme funded by the Italian Space Agency

Dates December 2013 - present

Position held **Robotics and Control Systems Engineer** - Freelance

Main activities Robotics application design and development focused on energy, environment and safety challenges

Dates May 2012 - November 2013

Name of employer **MerMec S.p.A**, Monopoli (BA)

Position held Systems and Control Engineer

Main activities Design of control and monitoring systems for diagnostic vehicles

- design and development of human machine interfaces; customization of Embedded Linux distributions installed on the driver's desk; rolling stock diagnostic control systems upgrading
- design of rolling stock electrical systems and control panels for diagnostic systems calibration

Type of sector Railway diagnostics and signaling

Dates May 2010 - May 2012

Name of employer **Dhitech S.c.a.r.l.** c/o Euro-Mediterranean Incubator in e-Business Management, University of Salento, Lecce (LE)

Position held Industrial Researcher

Main activities Fellowship on Interdisciplinary Industrial Research: "Experts in methodologies and technologies for collaborative design in the Aerospace Sector"

- industrial collaboration at GE Avio (Rivalta di Torino) related to the project *Turbine Control System Trainer* for GE LM2500/LM2500+G4 marine propulsion system
- study and analysis of innovative, competitive and sustainable manufacturing: technologies, skills and interaction between Education-Research-Innovation

Type of sector Research and Development

Dates	July 2009 - January 2010
Name of employer	Interdepartmental Research Center “E. Piaggio” , University of Pisa (PI)
Position held	Researcher
Main activities	Fellowship on Human-Robot Interaction: “Study and analysis of collisions for use in the development of Variable Impedance Actuator Systems” - VIATORS research programme (7th Framework Programme)
Type of sector	Research and Development
Dates	April 2005 - June 2005
Name of employer	Flyby S.r.l. - Applied Research Solutions, Livorno (LI)
Position held	Software designer and developer
Main activities	Commissioning of the prototype system developed in the previous collaboration
Type of sector	Research and Development
Dates	September 2004 - December 2004
Name of employer	Flyby S.r.l. - Applied Research Solutions, Livorno (LI)
Position held	Software designer and developer
Main activities	Design and development of a prototype system for distributed monitoring of solar radiation
Type of sector	Research and Development

Education and training

Dates	October 2009
Qualification	Professional engineering qualification for industrial and information technologies
Dates	January 2005 - May 2009
Qualification	Master of Science in Robotics and Control Systems Engineering, area of expertise in vehicles control, University of Pisa, grade 110/110 cum laude Thesis project <i>Modelling of proportional valves for uses in the automotive industry</i> (in collaboration with Ducati Corse S.r.l.)
Dates	February 2007 - July 2007
Qualification	Master student in Systems and Control Engineering, Delft Center for Systems and Control, TU Delft, The Netherlands, LLP Erasmus/Socrates 2006/2007
Dates	September 2001 - December 2004
Qualification	Bachelor of Science in Computer Engineering, University of Pisa, grade 109/110 Thesis project <i>Design and development of a prototype system for distributed monitoring of solar radiation</i> (in collaboration with Flyby S.r.l.)
Dates	September 1996 - June 2001
Qualification	Industrial and Technical High School Institute “G.B. Pentasuglia”, area of expertise in computer science, grade 80/100

Conferences

- ManuFuture 2011, West and East Europe in global High Added Value Manufacturing (Wroclaw, Poland)
- IAV 2010, 7th Symposium on Intelligent Autonomous Vehicles (Lecce, Italy)

Publications

G. Secundo, G. Passiante, A. Romano and P. Moliterni, Developing the Next Generation of Engineers for Intelligent and Sustainable Manufacturing: A Case Study, *International Journal of Engineering Education*, 29(1), 2013, pp. 248–262.

Language skills

Italian	Mother tongue
English	High intermediate level, speaking and writing. Certificates: <ul style="list-style-type: none">- <i>High intermediate</i> from the Oxford Institute of Lecce (2011)- <i>High intermediate</i> from the CLI (Interdepartmental Language Center) of Pisa (2004)- <i>Intermediate</i> from the E.F. School after a 5 weeks period in London during the summer 2003
French	Entry level, speaking e writing
Portuguese	Entry level, speaking e writing: learned in Brazil after a period spent as volunteer

Computer skills

Programming languages	Assembler x86, C/C++, Java, Python, JavaScript, CSS, PHP, HTML
CAD/CAE Systems	AutoCAD, SPAC Automazione
Operating Systems	Microsoft Windows, GNU/Linux, Mac OS X
Real-Time O.S.	RTAI Linux, Erika Enterprise
Embedded Systems	design and development of Printed Circuit Boards (PCB), microcontroller programming
Automation and control	PLCs, Rockwell Automation Tools (SoftLogix, RSLogix 5800, RSView), Siemens Step7 e WinAC RTX
Math tools	Matlab/Simulink/RTW, Scilab/Scicos, Mathematica, Maple
Dev tools	Microsoft Visual Studio .Net, Eclipse
Office and writing	Microsoft Office, OpenOffice, LaTeX

Technical skills

Knowledge about the analysis, the design and the development of high technology systems in the fields of process control, vehicles control, robots and autonomous vehicles, guidance and navigation systems

Design and development of printed circuit boards, microcontroller programming, development and generation of code for real-time operating systems, software for PLCs and HMI, design of electrical systems and control panels for industrial applications

Driving license

Cat. B (car), Cat. A3 (motorbike)

Soft skills

Flexibility and proactive approach, ability to adapt to different working environments and to work in team, analytical and problem solving skills, work planning and organization, interpersonal and communication skills, management by objectives

Personal interests

Visiting new places and meeting different cultures, playing guitar and listening to good music, swimming, running and practising other sport activities

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