

Europass Curriculum Vitae

Personal information



First name(s) / Surname(s) **Fabio Tampalini**
Address via Melzi 24, 25128 Brescia (Italy)
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E-mail(s) fabio.tampalini@gmail.com
Nationality Italian
Date of birth 26/03/1977
Gender Male

Work experience

<p>Dates 10/2008 →</p> <p>Occupation or position held R&D Director</p> <p>Main activities and responsibilities Study and analysis of advanced solution for integration of Kawasaki robot family with industrial automation. Research in the field of computer vision and offline programming. Co-examiner in robotics thesis: "Study and realization of robot software"</p> <p>Name and address of employer Tiesse Robot S.p.A. via Isorella 32, 25010 Visano (Italy)</p> <p>Type of business or sector Integrator and distributors of Kawasaki and Toshiba robots</p> <p>Dates 11/2006 - 9/2008</p> <p>Occupation or position held Control Software Engineer</p> <p>Main activities and responsibilities Membership of the motion control team, robotics-engineering group. Design, programming and study of motion control, (be in charge) system state of Comau robots. Study and analysis of advanced solution for integration of Comau robot family with industrial automation. Research in the field of computer vision for collision and obstacle avoidance, forbidden zones and shared areas between multiple robots. Study and analysis of solutions for the interaction human machine with sensor fusion based approaches. Work in European research project SME Robot.</p> <p>Name and address of employer Comau S.p.A. - Robotics (FIAT Group) via Rivalta 30, 10095 Grugliasco (Italy)</p> <p>Type of business or sector Industrial robot builder</p> <p>Dates 03/2004 - 09/2006</p> <p>Occupation or position held Ph.D. Student in Information Engineering</p> <p>Main activities and responsibilities</p>	<ul style="list-style-type: none"> • Connoisseur on the subject ENG-INF05 • Design, programming and study in MADSYS (http://www.airlab.elet.polimi.it/MADSys/) • Development of methods to face communications problems between agents in outdoor environments • Integration of DGPS information with local positioning methods based on fixed sensors and sensors mounted on mobile robots • Co-examiner in advanced robotics of the next thesis: <ul style="list-style-type: none"> o 'Study of methodologies to use wireless TCP/IP communication channel in which is submerged a multi-agent robotic systems' (in Italian); o 'Using of active optical markers in a distributed system on Internet to localize mobile robots' (in Italian); o 'Study and realization of an architectural middleware for robotics systems' (in Italian);
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	<ul style="list-style-type: none"> o 'Study and realization of a distributed system to evaluate mobile robot pose' (in Italian); o 'Realization of a robotics system to detect collision' (in Italian); • Teach exercise industrial robotics courses • Teach exercise advanced robotics courses • Teach courses of European Social Fund (ESF) for 'Web Programming (PHP+MySQL)' (2004 and 2005) • Teach seminar in industrial robotics course: 'Introduction to Vision and Robotics' • Teach seminar in advanced and mobile robotics: 'Introduction to behavioural control' • Teach seminar in advanced and mobile robotics: 'Introduction to fuzzy logic' • Teach seminar in algorithm and data structures: 'Complexity theory' • Design, programming and study for minor Ph.D. thesis in operative research: 'An resolver algorithm for the multidimensional knapsack problem' • Design, programming and study of motion tracking software for numerical elaboration of the images course • Reviewer of IEEE Conferences
Name and address of employer	University of Brescia - Faculty of Engineering via Branze 38, 25123 Brescia (Italy)
Type of business or sector	University
Dates	09/2003 - 02/2004
Occupation or position held	Designer and analyst of computer systems
Main activities and responsibilities	<ul style="list-style-type: none"> • Windows and Unix systems analyst • Study, manage and problem solving of internet connection for a National Bank and its bank branches and its headquarter server
Name and address of employer	Assyrus s.r.l. piazzale Cesare Battisti 7, 25128 Brescia (Italy)
Type of business or sector	IT Consulting

Education and training

Dates	03/2004 - 10/2006
Title of qualification awarded	Ph.D. in Information Engineering - XIX cycle in Information Engineering
Principal subjects / occupational skills covered	Thesis: 'SAURON Surveillance AUtonomous Robot Over Network. Study and realization of an autonomous robotic system for video surveillance based on different devices linked by Internet' Advanced robotics, Mechanics of Robotics, Artificial Intelligent, Operative System, Algorithm and Data Structures, Operational Research, Network Architecture to Support Quality of Service Over the Internet.
Name and type of organisation providing education and training	University of Brescia - Faculty of Engineering (University) via Branze 38, 25123 Brescia (Italy)
Level in national or international classification	Ph.D.
Dates	02/2004 - 02/2004
Title of qualification awarded	State Engineering Exam
Name and type of organisation providing education and training	Order of Engineering
Dates	09/1996 - 07/2003
Title of qualification awarded	Electronic Engineering degree
Principal subjects / occupational skills covered	Mark: 100/110 Thesis: 'Fuzzy logic controller based on XML-formatted files for behaviour-based mobile robotics' Operative System, Software Engineering, Knowledge Engineering, Electronic Calculators, Information Systems, Electronics of Digital Systems, Electrical Communications
Name and type of organisation providing education and training	University of Brescia (Faculty of Engineering) via Branze 38, 25123 Brescia (Italy)

Level in national or international classification | Master Laurea

Dates | 1991 - 1996

Title of qualification awarded | School leaving certificate

Principal subjects / occupational skills covered | Physics, maths, philosophy, history, English literature

Name and type of organisation providing education and training | Liceo A. Calini (Liceo Scientifico)
via Montesuella 22, 25128 Brescia (Italy)

Level in national or international classification | High School Degree

Personal skills and competences

Mother tongue(s) | **Italian**

Other language(s)

Self-assessment
European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences | I've good capability to relate with persons in a clear and precise way. I've developed these skills as I worked at Red Cross Voluntary Aid for 5 years.

Organisational skills and competences |

- I've worked in some Civil Protections camp as Red Cross Voluntary Aid (e.g. National Reunion of the Alpine Corps in 2000 at Brescia).
- I've worked for 4 years in the Advanced Robotics Laboratory of University of Brescia. During my job I re-organized and re-engineered the laboratory intranet and the Linux PCs
- During my Ph.D. I've managed the team of students and researchers to create AMIRoLoS system for PRIN (MIUR) national program

Technical skills and competences | • High skill in robotics and AI

Computer skills and competences |

- Excellent competences in mobile robotics, industrial robotics and artificial intelligent fields
- Deep knowledge of Windows 95/98/ME/2000/XP/Vista operating systems and Linux (RedHat, Fedora, Debian, Ubuntu, Kubuntu, Mandriva).
- Good knowledge of Sun Solaris Unix, SGI Irix operating systems, FreeBSD, OpenBSD and VxWorks
- Excellent competences with the following programming languages: assembler, C/C++, SQL, Perl, PHP, Shell Script, PLD2, Java. I've acquired this knowledge during university studies and during my Ph.D.
- Excellent knowledge of Matlab and Maple scripting language, software I've widely used during the University, during my doctorate and as I'm working in the motion control team in Comau.
- Excellent capability of assembly and disassembly of computer hardware.
- Excellent capability and competence in the manipulation of robot hardware and software (particular experiences on Pioneer family robots during my teaching courses in advance and mobile robotics).
- Excellent capability and competence in the manipulation of Comau robots hardware and software (experiences acquired during in Comau engineering team).
- Excellent knowledge of CVS (be in charge in Comau engineering team) and PLM (electronic library

	<p>versioning system).</p> <ul style="list-style-type: none"> • Advanced knowledge of Adobe Photoshop, Illustrator, Premiere, Acrobat, Latex • Advanced knowledge of Unified Modelling Language (UML). • Advanced knowledge of XML, HTML, XHTML, CSS, SVG • Good knowledge of LDAP, LAN, NFS, Samba, LDP, VPN • Good knowledge of Automake e Autoconf to create GNU standard packages, rpm e deb. • Advanced knowledge of MS Office, OpenOffice, Gimp, CVS, Qt and GTK
Artistic skills and competences	<ul style="list-style-type: none"> • I've attended a course of trumpet and solfeggio for 2 years • I've played trumpet in a band • I play harmonic as self-taught man • I've song as bass in the chorus of S.Nazaro e Celso (Brescia) for 4 years
Other skills and competences	<ul style="list-style-type: none"> • I practiced volley, basket, judo, ju-jitsu, tennis, soccer in agonistic contexts • I practiced swim, rugby, baseball, beach-volley, kayak
Driving licence(s)	A, B
Additional information	<p>Relevant courses attended:</p> <ul style="list-style-type: none"> • 'UML for industrial robotics' - Prof. Timothy Barbieri • 'PDL2 programming language for Comau Robots' • 'International Summer School on Perception and Sensor Fusion in Mobile Robotics', International Ph.D. School, Polytechnic University of Marche - Ancona 1-7/09/2005 - http://psfmr.univpm.it • 'Algorithm and Data Structures', Ph.D. Course - Prof. Marina Zanella • 'Network Architecture to Support Quality of Service Over the Internet', Ph.D. Course - Prof. Stefano Giordano - University of Pisa - Teledoc2 Project • 'Operational Research, Ph.D. Course' - Prof. Marina Zanella • 'Numerical Elaboration of the Images', Ph.D. Course - Prof. Riccardo Leonardi • 'Enterprise IT Infrastructures', Ph.D. Course - Prof. Pietro Baroni <p>Relevant seminars attended:</p> <ul style="list-style-type: none"> • 'Numerical modelling of atmospherical circulation and scattering of pollution in the environment', Ph.D. Seminar - Dr. S. Trini Castelli, Istituto di Scienze dell'Atmosfera e del Clima - C.N.R., Turin • 'Symmetry in Planning', Ph.D. Seminar - Dr. Derek Long del Department of Computer and Information Sciences, University of Strathclyde, UK • 'Feature point extraction and tracking in image sequences - theory and applications' Ph.D. seminar - Touradj Ebrahimi, EPFL, Swiss • 'Industrial automation and Robotics: state of art and future development' - Mario Salmon (SIRI), Ravelli Maurizio, Lorenzo Tironi (Tiesse Robot), Giovanni Legnani (University di Brescia) • 'Real Time Ethernet for industrial applications' - Alessandra Flammini (Università di Brescia), Paolo Ferrari (CEI SC65C), Stefano Vitturi (IEIT-CNR), Antonio Augelli (Siemens S.p.A.), Luca Cavagnari (Beckoff Automation S.r.L.), Luca Garzone (Rockwell Automation Italy), Alessio Fausti (GEFRAN S.p.A.) <p>Membership:</p> <ul style="list-style-type: none"> • IEEE • IEEE-IES Industrial Electronics Society • IEEE-CIS Computational Intelligence Society • IEEE-RAS Robotics and Automation Society: <p>personal web page http://www.ieee-ras.org/profile/12712/Fabio-Tampalini.html</p>

Publications:

• Thesis

o Tampalini, F., 'SAURON Surveillance AUtonomous Robot Over Network. Study and realization of an autonomous robotic system for video surveillance based on different devices linked by Internet', Ph.D. thesis, University of Brescia, 2007 (in Italian)

o Tampalini, F., 'Fuzzy logic controller based on XML-formatted files for behaviour-based mobile robotics', Master Laurea thesis, University of Brescia, 2003 (in Italian)

• International journals:

o Cassinis, R., Tampalini, F., "AMIRoLoS - An Active Marker Internet-based Robot Localization System", Robotics and Autonomous Systems, Vol. 55, N. 4, Pag. 306-315, Elsevier, Amsterdam, The Netherlands, 2007.

o Tampalini, F., Cassinis, R., "ARCSUS Advanced Robotic Control System Using SVG", ICGSTARAS Journal, Vol. 5, N. 2, Pag. 19-25, Cairo, Egypt, 2006 Robotics and Autonomous Systems.

• International conferences:

o Romanelli, F., Tampalini, F., "A Control Algorithm for the Management of Multiple Dynamical Geometrical Areas for Industrial Manipulators", Proc. RAAD 2008, 17th International Workshop on Robotics in Alpe-Adria-Danube Region, Ancona, Italy, 2008.

o Romanelli, F., Tampalini, F., "BOG and Fuzzy Controllers Based Multimodal Collision Avoidance for Industrial Manipulators", Proc. CIS-RAM 2008, Chengdu, China, 2008.

o Cassinis, R., Tampalini, F., Fedrigotti, R., "Active Markers for Outdoor and Indoor Robot Localization", Proc. TAROS 2005, London, UK, 2005.

o Cassinis, R., Tampalini, F., Bartolini, P., "Wireless Network Issues for a Roaming Robot", Proc. ECRM '05, Ancona, Italy, 2005.

• National Conference

o Tampalini, F., "La programmazione offline nelle PMI" – Corso Nazionale Automazione e Robotica 2009 - SIRI (@Comau Robotics)

o Tampalini, F., "I piccoli antropomorfi e SCARA per le PMI" - SAMUMETAL, Pordenone 2010

o Tampalini, F., "Lo stato dell'arte nei robot" - Corso di pulitura delle superfici metalliche, Sede ANVER - Vimercate (MI) 2010

o Tampalini, F., "La figura professionale dell'ingegnere" - La figura professionale dell'ingegnere, SIRI, UniBS, 2010

o Tampalini, F., "Strumenti innovativi per la semplificazione dei processi di taglio e saldatura nella grande carpenteria" - SALDAT, Milano, 2010

o Tampalini, F., "Le PMI e la programmazione off line" - Corso SIRI, Università Politecnica delle Marche, Ancona, 2010

• Technical reports:

o Dallefrate D., Ledermann T., Dresselhaus M., Heiligensetzer P., Tampalini F., Brockamp P., "Specification and early set-up of test-beds", CNR - AI, Robotics & Automatic Control, 2007.

o Cassinis, R., Tampalini, F., Bartolini, P., Fedrigotti, R., "Docking and Charging System for Autonomous Mobile Robots", DEA-Unibs, 2005.

o Cassinis, R., Tampalini, F., Fedrigotti, R., "Active Markers for Outdoor and Indoor Robot Localization", DEA-Unibs, 2005.

o Cassinis, R., Tampalini, F., Bartolini, P., "Wireless Network Issues for a Roaming Robot", DEAUibs, 2005.

o Cassinis, R., Tampalini, F., "Fuzzy Logic Controller based on XML-formatted Files for Behaviourbased Mobile Robots", DEA-Unibs, 2005.