


PERSONAL INFORMATION



**Gianni Gadda**

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 [www.giannigadda.it](http://www.giannigadda.it)

Sex Male | Date of birth August 5<sup>th</sup>, 1965 | Nationality Italian

POSITION **Computer science consultant**

WORK EXPERIENCE

August 2011 - present

**Computer science consultant**

Freelance (IT consultant pursuant to law 4/2013)

- Computer science advisory activities mainly aimed at integrating existing software tools with new software applications, designed and developed from scratch according to customers technical requirements, conceived to manage production and documentation in industrial sector.

**Business or sector** Computer science, industrial automation.

August 2011 – January 2016

**Business associate of Demonet s.r.l.**

Demonet s.r.l. (software house, [www.demonet.it](http://www.demonet.it))

Via Staffette Partigiane 34, 41122 - Modena

**Business or sector** Computer science and training advisory activities, software applications design and development.

September 2000 – July 2011

**Founder, President and CEO of Demonet s.r.l.**

Demonet s.r.l. (software house, [www.demonet.it](http://www.demonet.it))

Via Staffette Partigiane 34, 41122 – Modena

- In charge of administrative duties. Software applications design and development. Advisory activities to support companies in participating at national and European research projects. Computer science training activities.

**Business or sector** Computer science and training advisory activities, software applications design and development.

September 2000 – April 2005

**Senior Manager in national and European research projects (part time employee)**

Democenter soc. cons. a r.l. (companies and institutions association for technology transfer)

V.le Virgilio 55, 41123 – Modena (now Democenter-Sipe soc. cons a r.l., Strada Vignolese 905, 41125 – Modena, [www.democentersipe.it](http://www.democentersipe.it))

- In charge of research activities in European research projects:
  - FIBRESCOPE – GROWTH-CR-1999-70631 – Flexible Inspection of Bores with a Robotic EndoSCOPE.
  - SPACEMANTIX – IST-2001-34159 – Combining Spatial and Semantic Information in Product Data.
- Project Manager of the European project EPOMAT – IST-1999-20278 – Evaluating the Performance of an Object oriented Modelling bAsed on interneT (total eligible costs: 923,000 EURO; participants: 7; countries involved: Italia).

**Business or sector** Information and Communication Technology.

March 1999 – August 2000

### Head of the Innovation Department (full time employee)

Democenter soc. cons. a r.l. (companies and institutions association for technology transfer)

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- Preparation and/or negotiation of proposals for European projects:
  - TEMA – IPS029077PR – TElematic MArket of services related to digital objects (total eligible costs: 872,000 EURO).
  - UCANET – IST-1999-14095 – Understand the Consequences of the Adoption of tools and systems to support dynamic Networked and virtual organisations (total eligible costs: 687,000 EURO).
  - TROP – IST-1999-20277 – Transport Optimiser & Planner (total eligible costs: 609,000 EURO).
  - EPOMAT – IST-1999-20278 – Evaluating the Performance of an Object oriented Modelling bAsed on interneT (total eligible costs: 923,000 EURO).
  - PROVE-SME – IST-1999-20276 – PROMoting Virtual Enterprises out of SMEs (total eligible costs: 1,313,000 EURO).
- Project Manager of European research projects:
  - SWING EP 27179 – Simulation in fluid power system as tool for a virtual prototyping in a concurrent engineering environment (total eligible costs: 1,183,000 EURO; participants: 8; countries involved: Italy, Denmark, Norway).
  - EPSYLON EP 25359 – Enhanced Process modelling SYstem for Lean Operations maNagement (total eligible costs: 1,943,000 EURO; participants: 11; countries involved: Italy, Spain, Portugal, England, Ireland, Hungary).

**Business or sector** Information and Communication Technology.

July 1995 – February 1999

### Research staff member (full time employee)

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- Research and development activities carried out within European projects:
  - RUMS EP 8224 – RULe-based Manufacturing Modelling System.
  - AUTOMAT EP 22273 – Methodology and set of tools for the improvement of machine tool automation.
  - IMPETUS EP 27181 – Implementing Best Practice manufacturing planning resources with engineering tools to upgrade SMEs.

**Business or sector** Information and Communication Technology.

February 1994 – June 1995

### Research staff member (freelance)

CMA s.p.a.

Via Ghiarola Vecchia 73, 41042 – Fiorano Modenese (MO)

- Research and development activities carried out within the European project EASIER - ESSI 10542 - Enhancing Application Software Implementation for programmable logic controllers.

**Business or sector** Information and Communication Technology.

June 1994 – May 2013

### Teaching for academic, public and private institutions

- Teaching of “Sviluppo software per PLC” (“PLC software development”) as part of the training project “CUP E45C12003630007 2012/1465/RER Tecnico superiore per l'informatica industriale” (March – May 2013) organized by IAL Emilia Romagna (Modena) and NUOVA DIDACTICA Scarl.
- Adjunct professor of the course “Software per l'automazione” (“Automation software”) for the degree course in computer science (University of Modena e Reggio Emilia, academic years 2009-10, 2010-11).

- Adjunct professor of the course “Informatica Industriale” (“Computer science applied to industry”) for the degree course in computer science (University of Modena and Reggio Emilia, academic years 2005-06, 2006-07, 2007-08, 2008-09).
- Teaching of “Automazione industriale e PLC” (“Industrial automation and PLCs”) as part of the training project “Impiantistica innovativa tra risparmio energetico e sostenibilità ambientale” (February – March 2009) organized by CNI-ECIPAR s. cons. a r.l. (Modena).
- Teaching as part of the courses “Tecnico programmatore in ambiente web” (“Technical programmer of web-based applications”, October 2006 – February 2007 and November 2007 – January 2008) organized by Consorzio F.I.T. (Modena).
- Teaching as part of the course “Analista programmatore in ambiente web” (“Programmer analyst for web-based applications”, September – November 2005) organized by Consorzio F.I.T. (Modena).
- Teaching as part of the master course “Responsabile di Commessa nella Progettazione di Impianti” (“Project manager in the design of industrial systems”, 2003, organized by IAL Emilia Romagna and University of Modena and Reggio Emilia).
- Teaching of “Object Oriented Analysis and Programming” as part of the diploma course in Computer Engineering (University of Modena and Reggio Emilia, academic years 1996-97, 1997-98).
- Teaching of Computer Science and Industrial Automation (june 1994 – june 1995):
  - Manufacturing automation, functional logic and PLCs (IFOA - Istituto Formazione Operatori Aziendali, Modena).
  - Industrial automation - course in Systems Integrator (Democenter, Modena).
  - Industrial automation and modeling techniques (CORUM - Consulenti in Organizzazione e Risorse Umane, Modena).
  - Computer Science and Programmable Logic Controllers (IFOA - Istituto Formazione Operatori Aziendali, Modena).

**Business or sector** Information and Communication Technology, Computer Science, Industrial Automation.

## EDUCATION AND TRAINING

November 1987 – December 1993

### Four-year degree in applied mathematics (with final thesis, final mark 110/110 cum laude)

EQF 7

Title of the thesis: “Automi cellulari per lo studio della dinamica lagunare” (“Cellular automata to study the dynamics of the lagoon”).

Faculty of Mathematical, Physical and Natural Sciences, University of Modena.

- Mathematical Analysis
- Geometry
- Algebra and Number Theory
- Physics and Mathematical Physics
- Theory and application of computing machines
- Calculus of probability
- Numerical calculus and programming
- Numerical Analysis

November 1984 – October 1987

### Attended degree course in Medicine and Surgery, Faculty of Medicine and Surgery (9 exams)

EQF 7

University of Modena.

- Biology
- Chemistry
- Medical Physics
- Biochemistry
- Histology
- Anatomy
- Biometrics and Health Statistics
- Immunology
- Virology and Parasitology

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B1
First Certificate in English (grade C), University of Cambridge – Local Examinations Syndicate, Bologna – december 1986					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

Good experience gained:

- during presentations (or simply participation) at conferences and workshops;
- during the course of lectures (even in academia);
- during the negotiation of European projects with European Commission officials;
- through participation in various European projects that have involved numerous Italian and foreign partners.

Organisational / managerial skills

Good experience gained:

- in the organization of corporate internships;
- during tutoring for undergraduates;
- during coordination of European projects;
- as founder, president and CEO of the company Demonet s.r.l.

Job-related skills

Some examples of topics covered and software applications made during the activities carried out as consultant and / or founder member of Demonet s.r.l.:

- Devices control, e.g. bill and coin validators, coin hopper dispensers, camcorders.
- Interfacing with RFID, GPS systems.
- Interfacing with CNC controlled machines.
- Interfacing with PLC controlled machines: programming of control systems using finite state automata, Moore and Mealy machines, and translation into languages compatible with the standard IEC 61131-3.
- User interfaces for devices based on Windows CE and Windows Mobile.
- Graphical user interfaces and control systems for vending machines.
- Virtual layer of tiles for interior.
- Integration of Microsoft Visio with Rockwell Automation RSLogix to translate flow charts into instructions and structures compatible with the standard IEC 61131-3.
- Management of triage procedures by PDA and RFID technology.
- Shifts management of the hospital staff.
- Acquisition and computerization of real-time handwriting on paper with Wacom tablets.
- Management of advanced digital signature by PDA.
- Acquisition of noteworthy information in paper documents by integrating scanner and OCR systems.
- Integration of the CAD/CAM Tebis system, Presetter ELBO and Vericut simulator to improve tools management within production managed by CNC controlled machines.
- Optimization of tool changes in the production by CNC controlled machines.
- Tools classification based on the customization of self-explanatory codes, applied to production by CNC controlled machines.
- Documentation (electronic and paper) management in the production by CNC controlled machines.
- Design and development of applications and web sites (based on C#, SQL Server and ASP.NET) for the management of information related to activities carried out by cultural associations: conferences and training courses; management of teachers, students, members and logistics.

- Computer skills**
- Tools (most frequently used):
    - Microsoft Office.
    - Vericut (simulation of production by CNC controlled machines).
  - Libraries, Frameworks, Standards:
    - .NET and Compact Framework .NET.
    - Java SDK, Spring.
    - AForge.NET, Emgu CV.
    - Abbyy SDK.
    - Qt.
    - IEC 61131-3.
  - Programming languages (most frequently used):
    - C#, VB.NET, ASP.NET.
    - Java.
    - Instruction List, Ladder Diagram, Structured Text, Function Block Diagram, Sequential Function Chart.
  - Databases:
    - Microsoft SQL Server.
    - MySQL.
  - IDEs (most frequently used):
    - Microsoft Visual Studio.
    - NetBeans.
    - Eclipse.
    - CoDeSys.

Driving licence B

ADDITIONAL INFORMATION

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Publications / Presentations / Conferences

- F. Bonfatti, G. Gadda, P. D. Monari, "Progettazione di software PLC secondo lo standard IEC 61131-3" ("PLC software design according to the standard IEC 61131-3"), Bologna, Pitagora, 2004.
- G. Gadda, D. Sergiano, "Innovative Internet-based process model for PLC software development", Proceedings of the eBusiness and eWork 2001 Conference and Exhibition (Venezia, 2001).
- G. Gadda, D. Sergiano, "PLC software co-design and co-development through the Internet", Proceedings of the 6th International Telework Foundation Workshop & Business Conference (Amsterdam, 2001).
- F. Bonfatti, G. Gadda, P. D. Monari, "PLC software modularity and co-operative development", Proceedings of 2001 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (Como, 2001).
- F. Bonfatti, G. Gadda, P. D. Monari, "An improved process for the development of PLC Software", Proceedings of ICSE International Conference on Software Engineering (Boston, 1997).
- F. Bonfatti, G. Gadda, P. D. Monari, "Configurable Software Modules for Families of PLC-based Systems", Proceedings of International Workshop on Development and Evolution of Software Architectures for Product Families (Las Navas Del Marques - Madrid, 1996).
- F. Bonfatti, G. Gadda, P. D. Monari, "Bridging structural and software design of PLC-based system families", Proceedings of IEEE ICECCS International Conference on Engineering of Complex Computer Systems (Ft. Lauderdale, 1995).
- F. Bonfatti, G. Gadda, P. D. Monari, "The application experiment EASIER of the ESSI Initiative", Proceedings of AENEID/ESI Conference (Bilbao, 1995).
- F. Bonfatti, G. Gadda, P. D. Monari, "Re-usable software design for programmable logic controllers", Proceedings of ACM SIGPLAN LCT-RTS Workshop (La Jolla, 1995).
- F. Bonfatti, G. Gadda, P. D. Monari, "Simulation of dynamic phenomena by cellular automata", Computers & Graphics, Pergamon Press, 1994.
- F. Bonfatti, G. Gadda, P. D. Monari, "Cellular automata for modelling lagoon dynamics", EGIS 94 International Conference (Parigi, 1994).

## Non-profit activity

- Since 2015 vice president and in charge of the IT management of the cultural association Popular University of Formigine (UNIVERSITA' POPOLARE di FORMIGINE APS - [www.unipopformigine.it](http://www.unipopformigine.it)). Teacher of computer labs for the association.
- Since 2015 member of the association "Gli Amici del Cuore" (<https://www.gliamicidelcuore.mo.it/>) and in possession of the certificate of BLS (Basic Life Support Defibrillation).
- Since 1984 member and blood donor of the Italian Blood Volunteers Association (AVIS - <https://modena.avisemiliaromagna.it/>).

## Personal data

I authorize the processing of my personal data pursuant to art. 13 of Regulation (UE) 2016/679 "General Data Protection Regulation".