

PERSONAL INFORMATION

Fabrizio Amarilli

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Sex Male | Date of birth 10 November 1970 | Nationality Italian

WORK EXPERIENCE

01/01/2008–Present

Project Manager at Fondazione Politecnico di Milano

Fondazione Politecnico di Milano, Milano (Italy)

Fabrizio Amarilli developed his career around different connected stands related to the study and design of Management Information Systems.

He is now a Project Manager at the Fondazione Politecnico di Milano where his activity relates to the development, participation, and management of research projects, mainly funded by EU Commission.

He is now involved in the following EU projects.

- **SOCIALIZE**. AAL project aimed at the development of an ICT based (hardware/software) platform capable of putting in close contact the elder users with the community where they live, promoting elderly social interaction and proactive involvement in the democratic development of their own community through the use of new technology implemented in the elderly day by day contest. Role: analysis and design of new ICT-based services for elderly persons.

- **PICTET** (EQF-based professional ICT training for Russia and Kazakhstan). Project funded under the Programme Tempus IV Call V. The project is aimed at creating and e-qualification framework for Russia and Kazakhstan on the basis of the EQF ICT education experience in Europe, enhancing the RU-KZ system of professional ICT-training. He is WP1 leader and responsible for the design and implementation of the qualifications system in Russia and Kazakhstan.

Previously, he participated to the following projects.

- **MIRACLE** (Multi-level Alignment of Regional Approaches to Critical Infrastructure Resilience by Learning from Experience; HOME/2012/CIPS/AG). The project aims at promoting and fostering the development of regional Critical Infrastructure Protection and Resilience (CIP/R) strategies, through the increase of knowledge, awareness and existing capacities related to regional CIP/R programs and the analysis of the strategies and best practices at local and international levels. Duration: 24 months (2013-15). Budget 340.000 Euro (308.000 funded). Role: project coordinator.

- **SEHUD** (Architecture and Sustainable Urban Development Based on Eco-Humanistic Principles & Advanced Technologies without Losing Identity). Project funded under the Programme Tempus IV Call V. The project aims at creating modules for MSc, PhD, LLL training courses in urban development based on eco-humanistic principles & advanced technologies; amplifying training capacity of PC Universities by integrating e-learning components & creating advanced infrastructure, developing interactive cooperation network of universities, enterprises, municipal & public organizations involved in city development. Duration 24 months (2013-15). Budget 1.2 million Euro (1.1 funded). Role: support to the coordination of the project.

- **MODAClouds** (MOdel-Driven Approach for design and execution of applications on multipleClouds), addressing methodologies and instruments for the design and prototyping, and code generation of applications on multi-Clouds (IP project; ObjectiveICT-2011.1.2 Cloud Computing, Internet of Services and Advanced SoftwareEngineering). Duration: 36 months (2013-15). Budget 8.7 Million Euro (6.2 funded). Role: management support.

- **KNOW4DRR** (Enabling knowledge for disaster risk reduction in integration to climate change adaptation, ENV.2013.6.5-2). CSA (collaboration and support action) project aimed at the design of a Knowledge Management System in the area of Disaster Risk Reduction. Duration 24 months (2013-15). Budget 990,000 Euro (Funded 100%). Role: management support and collaboration to the design of the Knowledge Management System.

- **ERMES** (Embedded Resonant and Modulable Self-Tuning Laser Cavity for Next Generation AccessNetwork Transmitter). The project addresses the design and test of disruptive optics

technologies of the Next Generation Access Network (STREP project; Objective ICT-2011.3.5 Core and disruptive photonics technologies). Duration: 36 months, from (2012-14). Budget 3.5 Million Euro (2.1 Funded). Role: management support.

- **ORECCA** project (Off-shore Renewable Energy Conversion Platform Coordination Action), FP7 Cooperation CSA, FP7-ENERGY-2009-1, where he coordinated the design and development of the Web collaboration platform. Duration 24 months. Budget 1.6 million Euro (100% funded).

At Italian level he participated to the following research projects:

- SDG (Smart Domo Grid). The project is aimed at the design, development and test of a smart system supporting the "matching" of the needs of the electricity distribution system operators (DSO) and their household customers. Budget /funded) 850.000 Euro. Duration 36 months. Role: support to the coordination of the project.

- eGate, whose objective is the design and development of a prototype Information System supporting the exchange of information in an intermodal transport gateway. Duration 36 months. Budget 800,000 Euro. Role: coordinator, business analyst and trainer.

In the period 2006-2007 he collaborated to the TEKNE project (Towards Evolving Knowledge-based interNetworked Enterprise). The project foresaw the design of a methodology for dynamic B2B integration of company's processes.

In his second area of activity he carries out applied research in the fields of BPR, ICT assessment, design of Information Systems, where he holds an 18 year experience. He contributed to the design and implementation of the ICT evolution plan for several organizations.

Some of the companies and projects are listed below.

- Arkimat S.r.l. Analysis and re-design of the Information System for the company, which is an Italian B2B operator, leader in the e-commerce market of non-core products.

- Fava S.p.A., Baltur S.p.A., a family managed industrial group of companies operating (and leader) in the area of machinery for food and in the area of heating and cooling systems. He has led the assessment and design of the ICT evolution roadmap and is now auditing the implementation process of the new Enterprise Information System (ERP).

- ENERVIT S.p.A., an Italian company operating in the industry of food and beverage (specialized on nutrition products). He is leading a consultancy activity focused on the design of the new Information System for the whole supply chain (company, retailers, logistics operator) and in the software and partner selection for the new ERP system;

- Pasut S.r.l. a small company in the north of Italy operating in the area of heating and cooling systems design and maintenance. He is leading the software selection for the new ERP system.

- "Digilavorando". Research promoted by EPSON Italy aiming at the quantitative and qualitative assessment of the benefits coming from the implementation of digital printing technologies in micro-company processes;

- Banca Popolare di Sondrio, an Italian bank operating in the north of Italy, where he led the definition of the roadmap for the introduction of UCC (Unified Communication and Collaboration) services supporting internal processes of the bank;

- Cariaggi S.p.A., a leading Italian company in the yarn industry, where he worked on the design of a B2B information platform based on EBXML standard (ModaXML) supporting the interoperability of the company and its third parties

In the public domain he collaborated to the following projects.

- Ospedale Ca' Granda Niguarda (Niguarda Hospital) in Milan, where he collaborated in the preliminary study (process analysis and map) for the implementation of the Information System supporting the traceability of surgical instruments.

- Provincia Autonoma di Bolzano (Autonomous Province of Bolzano). He collaborated to the redesign of the ICT department of the Region. The project foresaw the assessment of the organization of IT Department (110 people involved), the analysis of the service model and the skills, the design of a new service model and an implementation plan, specific actions. Among the change management action, he collaborated to the training on demand management and BPR. Duration of the project: 4 months. Year: 2010

- Regione Lombardia (Lombardy Region). He took part in the definition of guidelines for the re-engineering of the relationship between the Regione Lombardia and its ICT insourcer company (Lombardia Informatica). The project foresaw the assessment of the service model of the IT insourcer and the design of a change plan, with the aim of improving specific key performances. Duration of the project: 4 months. Year: 2009

He is **member of the following groups and associations:**

- BDVA, Big Data Value Association (www.bdva.org).

- EAI European Alliance for Innovation (www.eai.eu)

- ARTEMIS-IA Industry Association is the association for actors in Embedded & Cyber-Physical Systems within Europe (www.artemis-ia.org)

- AICA (www.aicanet.it), the Italian association of IT professionals

- GreenTouch Initiative (www.greentouch.org)

He is member of the Editorial Board of the VESTNIK OF ASTRAKHAN STATE TECHNICAL UNIVERSITY. SERIES: MANAGEMENT, COMPUTER SCIENCE AND INFORMATICS.

01/04/2014–Present **European Commission Expert**

European Commission Research Executive Agency, Bruxelles (Belgium)

Expert evaluator in the topic ICT and Open Disruptive Innovation, participating to the evaluation of proposals in different programs (Horizon2020, cOST)

01/10/2000–Present **Lecturer at Politecnico di Milano**

Politecnico di Milano, Milano (Italy)

Since graduation in 1996, he has been continuously working in education. He took on lecturing duties in many courses at university, graduate and post-graduate level, and vocational levels.

In Academic Year 2015/16 he is:

- Lecturer of Management Information Systems for MBA students at MIP-Politecnico di Milano

- Adjunct professor (docente a contratto) of Information Systems, for students of Computer Science Engineering, at Politecnico di Milano, Cremona.

Previously he was:

- Adjunct professor of Information Systems ("Sistemi Informativi") for Industrial Engineering students at Politecnico di Milano for 5 editions of the course (years 2014/15, 2012/13, 2011/12, 2010/11, 2009/2010);

- Lecturer in the course of Corporate Information Systems at Politecnico di Milano, international degree in Industrial Engineering in Como for 3 editions of the course (years 2012/13, 2011/12, 2010/11);

- Adjunct professor, co-chair, of Business Processes ("Laboratorio di analisi dell'informazione e dei processi") for Industrial Engineering students at Politecnico di Milano, for 3 editions of the course (years 2007-08, 2008-2009, 2009-2010);

- Adjunct professor of Information Systems Architectures ("Impianti di Elaborazione") for industrial Engineering students at Politecnico di Milano, for 3 editions of the course (years 2004/05 – 2005/06 – 2006/07);

- Lecturer in the course of Information Systems at Politecnico di Milano, Lecco (years 2001/02, 2002/03 and 2003/04);

- Lecturer in the course of Information Systems Architecture at Politecnico di Milano (years 2002/03 and 2003/04).

He regularly holds lessons and seminars in the field of Information Systems assessment and Management Information Systems (MIS) for MBA course at MIP - School of Management of the Politecnico di Milano (among them International MBA, Executive MBA, Master in e-Supply Management).

In 2015 he was invited for a series of seminars on Methodologies and Languages for the Enterprise Architecture at Banca di Italia (Bankitalia).

He held vocational training courses for leading companies. Among them: Pirelli, Pirelli Real Estate, ISole24Ore, Unicredit bank, EDA (Ericsson Enterprise), SIRT.I.

He was supervisor and co-supervisor of around 50 thesis dissertations in the field of Information Systems.

In 2012 he was research fellow ("assegnista di ricerca") in the area of methodologies for the design Information System in logistics applications.

In 2006 and 2007 he was research fellow ("assegnista di ricerca") in the area of the design of Information Systems for the management of environmental data.

01/07/2000–31/07/2010

Partner

Webscience S.r.l., Milano (Italy)

In 2000 he participated to the creation of a university ICT start-up, Webscience S.r.l., where he contribute to some of the following projects:

- Valtur S.p.A., Italian tourist operator, leader in the Village Holiday model. He coordinated part of the project aiming and the analysis of the business processes (around 60 processes more modelled) and at the re-design of the critical ones;
- Enel Energia S.p.A., Italian company operating in the EPC (Engineering Procurement and Contracting) industry and leader in the design and implementation of Power Stations. He coordinated the part of the project aiming and the analysis and re-design of the main business processes;
- Pirelli Real Estate, Italian leader in the real estate industry. For around three years since 2000 he participated to several management consultancy projects concerning the design of Information Systems supporting business processes and the business planning of new services.

01/01/2004–Present

Research fellow and business consultant at School of Management, Politecnico di Milano

School of Management Politecnico di Milano, Milano (Italy)

Since 2004 he collaborates with the School of Management and the "ICT Observatories".

More specifically he collaborated to the following projects and researches.

- METEL. Analysis and design of evolution scenarios for the B2B EDI platform in the electric industry, based on an analysis of case studies. Principal researcher.
- Fiera di Milano (Milano International Fair). The project was aimed at the business process analysis, re-design of some critical processes, design of the "to be" scenario for the Enterprise System and software and partner selection for the implementation of the designed ES.
- From 2004 to 2007 he collaborated to the research on ICT in Italian SMEs, where he carried out a survey on the role and development of ICT in Italian SMEs in several provinces. The research led to the development of an innovative model for the business-ICT alignment based on the evaluation of ICT needs and ICT maturity. He personally carried out more than 100 interviews with SMEs and analysed more than 500 case studies.

01/01/2000–31/12/2007

Project Manager & business consultant at Consorzio Politecnico Innovazione

Consorzio Politecnico Innovazione (in seguito Alintec Scarl), Milano (Italy)

Project manager in ICT projects concerning the assessment and design of Information Systems and business process reengineering activities.

More specifically he participated to the following projects:

- Provincia di Perugia (Perugia Province). Business process analysis aiming and the re-engineering of specific processes in the purchasing domain. Coordination of the project, analyst and teacher during the implementation of the project;
- Comune di Milano (Milan Council). In the area of event and tourism management, business process analysis aiming at the design of a new Tourism Web Portal;
- In 2002 he collaborated with the Italian Ministry of Innovation and Technology (Ministero dell'Innovazione e Tecnologia) in the evaluation of the e-Government proposals submitted to the Minister in response to a public notice. Within the project he coordinated the development of the Web Information System supporting the collection and management of the evaluation procedure (more than 500 project evaluated in less than one month);
- In the period 2003 - 2004 he coordinated the project "Osservatorio IPPC" (IPPC Observatory) for the Technical Agency of the Environment Ministry of Italy (APAT - Agenzia Tecnica per la Protezione dell'Ambiente e per i Servizi Tecnici) aiming at the design of the Web Information System supporting the authorization process of companies in response of the implementation of the IPPC European directive;
- Provincia di Sondrio (Province of Sondrio). Project "Valtellina Innova", study of the local tourist

services and analysis of the opportunities provided by Web solutions;

- ASL di Vallecamonica (Hospital of Vallecamonica Valley), design and development of an Information System (Intranet/Extranet) for the local NHS hospital, in the Province of Brescia, supporting the delivery of administration services toward employees and health services toward patients not in hospital;

- Comunità Montana di Vallecamonica (local Public Administration body). Design of the "anagrafe integrata", an Datawarehouse system collecting and integrating personal data coming from several public bodies;

- SBS (Siemens Business Services). Design of a methodology to evaluate the ROE in projects concerning the implementation of a MES (Manufacturing Execution System) in manufacturing companies;

- SBS. Management consultancy aiming at design of an ERP approach to the Italian SME market.

- Assindustria Firenze (Industrial Association in the Province of Florence). Study of the ICT needs of a panel of companies in the province and organisation of communication workshops.

- Taiana S.p.A. Manufacturing SME operating in the textile area. Assessment of the Information System and design of the ICT evolution plan.

- GR Informatica (software SME). Collaboration with the technical department in the design of the Web Document Management system.

- SARAS Ricerche (Research Institute belonging to the SARAS company). Analysis and design of an environment Decision Support System collecting and managing data in the Gulf of Cagliari.

- Valcavallina Servizi (utility company operating in the area of Bergamo). Study and development of a business plan for the implementation of ICT services for the public offices in the province.

He collaborated with the Regione Lombardia (Lombardy Region) and its ICT insources (Lombardia Informatica) in several projects:

- Design and prototype development of a Water Information Systems, a Knowledge Management System collecting documents and supporting the water management planning in the Region;

- "Laboratorio sottosuolo", study on the ICT technologies for the management and exchange among the public and private stakeholders of data of underground utilities (TLD, water, etc.).

- "Anagrafe dei siti da bonificare". Coordination and design of a Web IS supporting the treatment of polluted areas in the Region.

He managed the collaboration between the Fondazione Politecnico di Milano and IBM under the umbrella of the "IBM Academy". The collaboration offered the opportunities to graduating students to participate to a specific training on IBM technologies and implementing their graduation thesis in an ICT company.

As a personal interest he carried out the design and development of a troubleshooting system based on Bayesian Networks.

01/09/1997–31/12/1999

Junior research fellow at MIP - Politecnico di Milano

MIP - Politecnico di Milano, Milano (Italy)

Junior analyst in research projects funded at national level.

- ISTA (Infrastrutture per Servizi Telematici Avanzati). Project aimed the the design and implementation of an e-Learning and tele-assistance platform for SMEs.

- ITT (Interaction Telemedia for Trading). Project aimed at the design and development of a generator of e-commerce applications.

- "VolI" (Vallecamonica OnLine). Analysis and design of an Intranet providing services for the public offices in the area of Vallecamonica.

- SITAR (Sistema Informativo Territoriale locale). Design of the Geographical Information System for the Vallecamonica area and coordination in the implementation by an external software company.

- "Osservatorio MIP-Nolan Norton" observatory activity on ICT in Italian private companies and public administrations. Business analyst.

01/09/1999–Present

Publications

Politecnico di Milano, Milano (Italy)

Books and contributions to books

- In G. Passiante. "Evolving Towards the Interneted Enterprise – Technical and organisational perspectives." Springer, New York, 2010. ISBN: 978-1-4419-7278-1. Capitolo 11: "Tisettanta case study: the interoperation of the furniture production companies".
- In Bartezzaghi E., et al. *L'organizzazione dell'impresa. Processi, progetti, conoscenza e persone*. EtasLibri, Milano, 2009.
- In Bracchi, G. et al. "Sistemi Informativi per l'Impresa digitale". McGraw Hill, 2009.
- In R. Brambilla, M. Cabrini, et al. "The All Around IT Professional". Franco Angeli, Milano, 2007.
- Amarilli, F., Ardagna, D., Fugini, M., Tedesco, R., Impianti di Elaborazione: tecnologie e applicazioni. McGraw Hill, aprile 2007.
- In R. Balocco, S. Mainetti, A. Rangone, "Innovare e competere con le ICT". Edizioni Ilsole24ore, 2006.
- F. Amarilli, R. Brambilla, et al. "Professione Informatica, Volume unico". Franco Angeli, Milano, 2005.
- F. Amarilli, R. Brambilla, P. Schgör. 2004. "Professione Informatica, Vol. 1 - Pianificazione, uso e gestione dei Sistemi Informativi". Franco Angeli, Milano, 2004.
- In G. Franza e P. Schgor, et al. Professione Informatica, Volume unico. Franco Angeli, Milano, 2004.

Papers and contribution to papers

- Amarilli, F. A Framework for Business IT Alignment in Turbulent Environments. Athens Journal of Technology Engineering. June 2014.
- Amarilli, F. (2014) "A Framework for Business IT Alignment in Turbulent Environments" Athens: ATINER'S Conference Paper Series, No: COM2014-1002.
- Amarilli, F., Chang, S., Korotky, S., Satzke, K. "Application Taxonomy. A comprehensive classification of technologies by requirements". Greentouch working document. 2012.
- Amarilli, F., Dal Santo D. An Italian pilot Consorzio IPSA. In "FootwearBIZ. A single e-Language for the supply chain of the European Textile Clothing Footwear Industries." EU Publication. 2010
- Amarilli, F. et al.: The e-Governance of Innovation in Public Administration. In "Italy E-governance: transforming Government to build trust and quality. 2009.
<http://www.epractice.eu/files/media/media1707.pdf>
- PMI: innovare per sopravvivere – I risultati quantitativi dell'Osservatorio 2006/2007. Rapporto Osservatorio ICT sulle PMI della School of Management del Politecnico di Milano. 2007.
- Amarilli, F., "L'innovazione ICT nelle PMI". Seatcon Voi. N. 5, novembre - dicembre 2006.
- Amarilli, F., "La Maturità ICT". Computerworld Italia. 12 giugno 2006.
- Amarilli, F., "La Maturità applicativa". Computerworld Italia. 5 giugno 2006.
- Amarilli, F., "La Maturità infrastrutturale". Computerworld Italia. 22 maggio 2006.
- Amarilli, F., Balocco, R., Mainetti, S., Rangone, A. "ICT e PMI: una lettura al di là delle statistiche". Quaderni di Management, n° 16, luglio-agosto 2005.
- ICT e PMI: una lettura al di là delle statistiche. Rapporto Osservatorio ICT sulle PMI della School of Management del Politecnico di Milano. 2005.
- Amarilli, F., Mainetti, S. "ICT e PMI, le PMI italiane sono mature?". Osservatorio e-Business della Provincia di Milano. Available at: http://business.provincia.milano.it/documenti/cat_11/Articolo%20ICT%20e%20PMI%20Portale%20Provincia.doc
- F. Amarilli et al. "La Sfida dell'ultimo miglio. L'E-Commerce e l'E-Logistics: come superare i vincoli per una moderna gestione della Supply Chain". Convegno AILOG, Il ruolo dei trasporti per l'ottimizzazione della Supply Chain, 19/20 giugno 2001, atti del convegno.
- F. Amarilli et al. "Strategie e Investimenti per l'Informatica e la Telematica nei Comuni Italiani, Rapporto 1999". Osservatorio MIP-Nolan Norton. Pubblicazione SMAU, 2000.
- F. Amarilli, S. Mainetti, E. Ongaro. "L'Utilizzo delle Tecnologie Intranet per lo Sviluppo degli Enti Locali". Sistemi & Impresa, Luglio/Agosto 1999.
- F. Amarilli et al., "Strategie e Investimenti per l'Informatica e la Telematica nelle Regioni Italiane, Rapporto 1998". Osservatorio MIP-Nolan Norton. Pubblicazione SMAU, 1998.
- F. Amarilli et al., "Strategie e Investimenti per l'Informatica e la Telematica nei Comuni Italiani, Rapporto 1998". Osservatorio MIP-Nolan Norton. Pubblicazione SMAU, 1998.
- F. Amarilli et al., "Definizione di un Modello di Riferimento per il Sistema Informativo Regionale della Lombardia". Rapporto IReR 1998

Miscellanea

2010. Co-author of the guide on public international procurements and European funding.
The guide is available at: <http://www.lombardiapoint.it/files/AppaltiBeniLavori.pdf>

EDUCATION AND TRAINING

- 01/09/1998–30/06/1999

Executive Master in Business Administration
MIP - Politecnico di Milano, Milano (Italy)

EQF level 7
- 01/10/1989–30/06/1996

MSc in Industrial Engineering and Management (Ingegneria delle tecnologie industriali ad indirizzo economico-organizzativo)
Politecnico di Milano, Milano (Italy)
Final mark: 90/100.
Thesis developed in the field of Information System.
Thesis title: "Analisi e simulazione di un modello della capacità organizzativa di elaborare informazione". Supervisor: prof. Giampio Bracchi.

EQF level 7

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2
Russian	A1	A1	A1	A1	A1

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 Good communication skills in Italian and English developed through the participation to several international research projects and education activity for students at graduate and postgraduate levels.

Organisational / managerial skills He is familiar with the managerial techniques for the coordination of small projects (consultancy projects involving up to 10 persons) as well as for projects involving a relevant number of partners (mainly EU funded projects).

Job-related skills Managerial competences.
Strong analytical skills developed during several consultancy projects.
Good knowledge of designing and modelling techniques and languages such as:
- BPR approaches and techniques.
- BPMN and UML
- SQL and DBMS

- Archimate

Digital competence SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid