PERSONAL INFORMATION

Gualtiero Fantoni

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Sex male | Date of birth 04/04/1973| Nationality Italian

POSITION
December 2008-now

Assistant Professor
Department of Civil and Industrial Engineering, University of Pisa

WORK EXPERIENCE

September 2005-December 2008

Since September 2005 he is Assistant Professor at the Department of Mechanical, Nuclear and Production Engineering of the University of Pisa.

January 2005-September 2005

Free lances as Engineers in R&D sector

June 2005

He defended his PhD thesis.

January 2002 -December 2004

PhD student in Robotics, Automation and Bioengineering at the University of Pisa.

July 2001-December 2001

He became the Quality Assurance Manager in Pont-Tech.

July 2000-June 2001

He was researcher at Pont-Tech s.r.l. () in the R&D area (contract as industrial researcher by MIUR). Main activity on “Design for Miniaturisation”. This research activity, sponsored by ENEA, was developed in collaboration with the Department of Mechanical, Nuclear and Production Engineering in Pisa.

Business or sector: Research and Development

EDUCATION AND TRAINING

June 2005

PhD in Robotics, Automation and Bioengineering at the University of Pisa.

October 1999

MEng in Mechanical Engineering ("summa cum laude") at the University of Pisa

July 1992

Secondary School Diploma Scientific Lyceum Grosseto, Italy

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	C1	C1	C1
Franch	B1	B1	A2	A2	A1

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

Communication skills

Good communication skills gained through my experience as PhD student, teacher, consultant.

Organisational / managerial skills	Leadership and management skills gained during regional, national and international research projects and also industrial collaboration (currently responsible for a team of 5 people in R&D and 5 people in the spin off company Erre Quadro)
Computer skills	Microsoft Office™ tools, Mathlab, Mathcad, ProEngineer
Driving licence	B

ADDITIONAL INFORMATION

Research Projects	Assistant professor for the project PRIN 2005 “Development of innovative technologies for the assembly of hybrid microproducts”. Assistant professor for the project PRIN 2006 “Micromachining: machining and finishing of micropart” for the development of a “Design and development of a cell for electrochemical machining, process optimisation and metrology of the obtained microparts”. 2007. Co chair of the industrial project “Technology and material for new products” financed by the Tuscany Region. 2008. Vice chair of DIMNP Research Unit in the project PRIN 2008 “New actuators for advanced systems of manipulation and haptic interaction”. 2010. Co-chair of the Regional Project “Technology Foresight for the Textile and Biomedical fields” Contract for the Regione Toscana. 2011. Co-Principal Investigator and WP leader of the work-package concerning grasping in the 7th FP IP project “RobLog - Cognitive Robot for Automation of Logistic Processes” 2011-2015 2011. President of the scientific committee of the project LILIT (Living Labs for the Industries in Tuscany) and ad interim project coordinator. 2012. Chair of the project “Manufacturing technologies for the new generation of vitrectomy probes” in collaboration with the Institute of Ophthalmology of the University of Pisa and the Doheny Eye Institute, Keck Medical School, USC, Los Angeles, USA.
Industrial collaboration	Since 2002 he collaborated with Intier Automotive, Motrol Division for developing new concepts for a car door. Then he support the R&D team in Motrol during the development of a full QFD (Quality Function Deployment) concernine an entire door (latch and window regulator). In 2003 he studied the functional logics of the new door. Activities: Functional Analysis and Value Analysis. Benchmarking and hypotheses of standardization completed the work. In 2004 he supported the R&D team of Motrol in FMECA of the new door and in the integration with QFD and Value analysis. 2006. Development of a method called “InnovationWay” based on Functional Analysis. The design method has been applied several times in industrial environment with excellent results. At the present the method has been adopted by the Technology Transfer Centre QuInn s.r.l. in Pisa. 2006. Co chair of the industrial project “Innovation Day: towards a new car door”. Project with Magna Closures Motrol Division. 2010. Chair of the project “Advanced brush technology”. Development of new products based on brushes and related manufacturing processes 2010. Chair of the DIMNP research unit project “Hercules - Highly ERgonomic and Comfortable, Ultraresistent, Light and Eco-Sustainable helmets”. Development of QFD, Functional Analysis and Value Analysis for a new ultra-safe helmet 2011. Chair of the project “AMDS - development of a mechatronic car door” 2011. Project with Magna Closures Motrol Division.

Invited Talks

During the poster session of the “2nd Postgraduate Summer School in Precision Assembly” (Eindoven 2004) he presented “Contactless handling of microparts by using electrostatic forces: preliminary tests performed at the department of Mechanical, Nuclear and Production Engineering at the University of Pisa”.

In October 2004, visiting student at the Technische Universität Ilmenau, Fakultät für Maschinenbau with Professor Klaus Zimmermann. He presented: “Assembly of Hybrid Microproducts: state of the art and the research at the Department of Mechanical, Nuclear and Production Engineering at the University of Pisa”.

In April 2006 he presented “Microhandling by using electrostatic fields” during a Seminar on Microassembly at the Université Libre de Bruxelles (in Bruxelles).

In July 2008 he was invited at Department of Precision and Microsystems Engineering at the Delft University of Technology where he presented “Assembly at the microscale: where the rules of the game change”.

In January 2009 he participate to the "INNO-Grips Early Career Researchers Workshop on IPR and Open Innovation". The paper G. Fantoni, R. Apreda, P. Valleri, A. Bonaccorsi, M. Manenti "IPR management in collaborative crowdsourcing" has been selected as one of the most interesting contributions to the workshop.

2009. Selected (within the CIRP Research Affiliates network) as lecturer for the Summer School on Microassembly and Microproduction at the Technical University of Denmark where in June 2009 he gave a lecture titled “Micorassembly Techniques”.

In January CIRP January Assembly 2012 STC A – Technical presentation G. Fantoni, Active surfaces: development of a piezoelectric micropositioning system

In August CIRP January Assembly 2012 STC A – Technical presentation G. Fantoni, Active surfaces, materials and tools for assembly

In January 2013 CIRP January Assembly CWG Micro-Production Engineering – Technical presentation G. Fantoni “Mirodrilling of eye-needles for surgical operations”

Visiting Researcher

2004 (October). Visiting PhD student at the Technische Universität Ilmenau, Fakultät für Maschinenbau with Professor Klaus Zimmermann. He presented: “Assembly of Hybrid Microproducts: state of the art and the research at the Department of Mechanical, Nuclear and Production Engineering at the University of Pisa”.

2009 (June-July). Visiting Researcher at DTU (Copenhagen). Development of mechanical micro-grippers, adhesive micro-grippers, design of a micro-screwdriver. Manufacturing processes for adaptable surfaces.

2009 (August-September). Visiting Researcher at BDML (Stanford University). Study of the wet adhesion and of the climbing of tree-frogs. The study was oriented to the design of a novel grasping system at able to deal with object at the mesoscale.

2012 (August-September). Visiting professor at the Product Design Engineering Department at the Universidad Técnica Federico Santa María, Chile. The goal of the stay is double: to give lectures and to support the research project of prof. Pablo Prieto.

Awards

Winner of the prize “AITEM 2003 young researcher” for the best single name paper (premio Giovane Ricercatore AITEM 2003). AITeM is the “National Society for Production Engineering”.

In 2006 he was selected for the summer school “Highlights in Microtechnology” sponsored by the Marie Curie Program.

In 2009, the Manchester Institute of Innovation Research (MIoIR) selected the paper <G. Fantoni, R. Apreda, P. Valleri, A. Bonaccorsi, M. Manenti "IPR management in collaborative crowdsourcing"> as one of the most interesting contributions to the workshop "INNO-Grips Early Career Researchers Workshop on IPR and Open Innovation". MIoIR is a research institute based in Manchester Business School, at the University of Manchester. In January 2009 he presented the paper and participated to the workshop. All the expenses have been paid by the EU project

Didactics

Teacher of “Advanced Manufacturing Processes”

Teacher of “New product and process development”

Supervisor of more than 75 Master theses.

Supervisor of 3 PhDs in Automation Engineering, 1 in Mechanical Engineering and 2 in Management Engineering.

Spin off and Labs management	Founder of Erre Quadro s.r.l. In 2008 Erre Quadro s.r.l. started its business in the automatic analysis of patents through full text searches. The Company was accredited as spin off of the University of Pisa in May 2013. President of the Leaning Lab, the Pisa's Living Lab Founder of FabLabPisa

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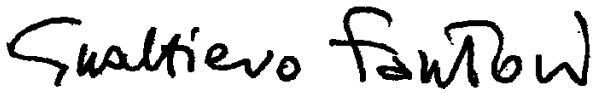
Decree No. 196/03 of 30 June 2003 entitled "Code of privacy"



ANNEXES

List of publications