

Curriculum Vitae

Ing. Daniele Mazzei, Ph. D.

Personal Information

Name Surname	Daniele Mazzei
Nationality	Italian
Date and place of birth	13 giugno 1982, Portoferraio (Li)
Address	Via Delle Lenze 10, 56122, Pisa, Italia
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Education and Professional Qualifications

Date	June 2001
Institution	High School "R.Foresi", Portoferraio (LI), Italy
Title	High School Grade
Grade	98/100
Date	February 2005
Institution	Faculty of Engineering , University of Pisa
In collaboration with	Institute of Clinical Physiology of Pisa, Italian National Council of Research
Title	First Degree in Biomedical Engineering
Thesis	Design and development of a new gradient concentration cell culture chamber for biomedical applications
Grade	109/110
Date	October 2006
Institution	Faculty of Engineering , University of Pisa
In collaboration with	Institute of Clinical Physiology of Pisa, Italian National Council of Research and Computer Science Department of University of Pisa
Title	Master Degree in Biomedical Engineering, with industrial curriculum
Thesis	Design and development of a new High throughput Bioreactor for tissue engineering application
Grade	110/110 Lode
Date	July 2007
Institution	Faculty of Engineering, University of Pisa
Title	Professional Qualification of engineer, registered with number 2524
Date	April 2010
Institution	Faculty of Engineering, University of Pisa, Department of Electrical Systems and Automation
Title	PhD
Thesis	SUITE an Innovative Bioreactor Platform for in vitro Experiments

Technical Skills and Know-how

Programming and Modelling

During my master degree thesis preparation I worked in collaboration with various members of the University of Pisa Computer Science Department where in the last years I taught “Sensors for mobile devices” at the Masters on “Mobile Applications Development”. In the context of this collaboration I also worked with Prof Egon Börger and Prof. Vincenzo Gervasi on the use of ASM (Abstract State Machine) language and paradigms in engineering. I used ASM language to model, simulate and validate the control algorithm of the bioreactor control system I developed during my PhD. Currently, I am leading the FACE Team of the Research Center “E. Piaggio” of the University of Pisa where I am the architect of the “social robot mind” for humanoids we are developing in collaboration with Dr. Antonio Cisternino. The current version of the implemented architecture is built on top of the CLIPS rule engine and aims at creating an in-silico version of the Damasio’s brain and mind theory. Moreover, I am one of the developers of Zerynth (Formerly VIPER) a Python virtual machine for embedded devices specifically tailored for the Internet of Things and for the design of smart objects and connected products. At Zerynth I design the architectures of the embedded systems used for the development of installations and POC (Proof-of-Concept) and I also take care of the company commercial tools and apps user experience.

Sensors, Electronics and Systems Integration

During my Bachelor and Master thesis, PhD and then post doc I worked with a very wide range of sensors (environmental, bio-sensor, mechanical, physiological) and I used various type of control systems based on micro-controllers, embedded devices and PC with acquisition boards. These activities allowed me to develop a very good knowledge of systems integration dealing with electronics, mechanics, data communication and systems interfacing. In particular, during my PhD I worked with a variety of bio-sensors aimed at acquiring biological and environmental parameters for the real-time control of cell cultures media and incubation environment. In my career I designed and developed various electronic devices and systems using “do it yourself” boards like Arduino and RaspberryPi for prototyping but also professional boards for the design of research tools and commercial products. During my career, I designed and developed various research prototypes that are nowadays used in European labs and/or commercialized by worldwide companies.

Project Management and Writing

In 2010 when I started my post-doc I have been involved in the coordination of the activities of the Research center E. Piaggio aimed at developing, for the CEEDs project, a set of wearable sensors for physiological signal acquisition to be used in virtual reality environments. In the context of the CEEDs project I worked as co-principal investigator for the Pisa’s team. Thanks to the skills acquired in this period I could drive the writing of EASEL, a new European project proposal involving part of the CEEDs consortium. The EASEL Project [FP7-ICT-2013-611971] (Expressive Agents for Symbiotic Education and Learning) has been granted in 2012 and I am now the technical coordinator. In 2013 I wrote a project proposal in collaboration with the Institute Jean-Daniel Nicoud of CNRS of Paris. The proposal has been financed by the Foundation Orange and the project started under the coordination of Tiziana Zalla for the CNRS of Paris while I have been assigned with the role of internal referent and coordinator for the Research Center “E. Piaggio”. The project “Perception visuelle et reconnaissance des émotions dans les troubles du spectre autistique” aims at designing therapeutic scenarios on which social humanoids are used as tools in the treatment of children with autism. The project successfully concluded in 2014.

In my career I wrote and submitted than 7 EU projects representing a research institute but also SMEs. Indeed, in 2016 I wrote as Zerynth co-founder the Lincoln project that has been granted under the (Blue Growth - Demonstrating an ocean of opportunities) financing line with the grant: H2020-BG-2016-2017.

Dissemination and Exploitation

During my career I drove various dissemination and exploitation activities for both research institutes and also companies. In particular, I have been involved in the organization of the Pisa's Internet Festival as University of Pisa referent since 2013 where I organized two sessions for the presentation of the FACE robot and of the CEEDs project. In 2014 I co-organized the RIOT Hackathon where 30 developers, 20 companies and 5 international speakers participated in a 48 hours intensive session aimed at designing and prototyping smart objects and IOT products.

In 2015 I have been invited as representative of the Pisa's startup and spinoff ecosystem to present at the Internet Festival 2015 inaugural press conference in Milan. Moreover, I organized the FACE Team exposition for "Bright, La notte dei ricercatori" 2014 and 2016.

In the 2016 edition of the Internet Festival I also presented the first LORA network of Pisa that I contributed to kickstart by initiating the Pisa's *The Things Network* community.

In various of these occasions and events I released interviews for newspapers, journals and TV news.

I have been also involved as Publicity Chair in the organization of the EAI International Conference on CYber physiCaL systems, IoT and sensors Networks that took place in Rome, Italy in October 2015.

Research Activity

I am the scientific director of the FACE Team (www.faceteam.it) at the Research Center "E.Piaggio" of the University of Pisa. My current position is post doctorate research assistant. My actual research is focused on Internet of Things and social robotics with specific focus on empathic and emotional communications between humans and robots or more in general affective objects and smart devices.

At the FACE Team I am coordinating the development of a cognitive system for the FACE robot that will be used as framework for the design and test of in-silico minds and behavioural models for social robotics and smart objects. At the current stage, the FACE in-silico mind implements a basilar version of the Damasio's theory where modules that mimic the "proto-self" and the "somatic markers" have been already implemented.

This activity is at the base of a long standing collaboration I am coordinating between the Interdepartmental Research Center "E.Piaggio" and the Computer Science Department of University of Pisa. Moreover I am coordinating the collaboration of the FACE Team with various neuroscientists and behavioural psychologists aimed at the defining the mind models to be implemented and tested on the FACE in-silico mind.

In 2014 I also opened a new research line of the FACE Team aimed at designing social and empathic objects for the Internet of Things. This new research activities aims at transferring theories and models belonging to the human-robot and human-machine interactions studies to the in-house and daily-life acceptance of interactive technology. The first project of this new research line has been "SOME the Object's root" that has been presented in March 2014 at the IEEE World Forum on Internet of Things in Seoul (South Korea). SOME can be considered the as an embryonic version of the Zerynth Virtual Machine I co-developed

Zerynth (formerly Viper) is a Python Virtual Machine for embedded devices that allow easy and intuitive programming of micro controller based boards using paradigms and structures typical of high-level programming. Zerynth aims at giving designers and scientist the possibility to easily develop their own smart objects and experimental setups without having a deep knowledge of embedded architectures and low-level programming paradigms.

I am also the technical coordinator of the European project EASEL [FP7-ICT-2013-611971] (Expressive Agents for Symbiotic Education and Learning) aimed at exploring and developing a theoretical understanding of human-robot symbiotic interaction in learning.

I am also involved in the European project CEEDs [FP7-ICT-2009-5-258749], where my team is developing the wearable acquisition system for monitoring physiological parameters and infers people affective state in human-machine interaction scenarios.

I am also the coordinator of the collaboration between the Research Center "E. Piaggio" and the Institute Jean-Daniel Nicoud of CNRS of Paris. This collaboration, started in 2013 with Dr. Tiziana Zalla, aims at designing innovative therapeutic scenarios on which social humanoids are used as tools in the treatment of children with autism.

I am also collaborating with David Hanson and Hanson Robotics (Plano, TX, USA) for the development of a new generation of highly expressive humanoid robots that will be able to mimic facial expressions and also to perform facial and lips micro movements.

During summer 2011 I have been invited as visitor researcher at Carnegie Mellon University CYLAB by prof. Yang Cai. I also attended the 8th ESA Student Parabolic Flight Campaign held in Bordeaux in July 2005 and the results of this work were published on “Verification of Fitts law in microgravity and hypergravity environments”.

In October 2016 I opened, in collaboration with Prof. Stefano Giordano from University of Pisa and with the support of Zerynth, the Pisa’s *The Things Network* community <https://www.thethingsnetwork.org/community/pisa/> for the development of an open Low Power Wide Area Network based on LORA radio technology for IOT devices. The Pisa’s TTN community actually counts 2 gateways that allows companies, researchers, makers and entrepreneurs testing the LORA technology and prototyping products and projects without requiring an infrastructural bootstrap investment.

My scientific activity started in October 2006 when I received the Master Degree in Biomedical Engineering at the University of Pisa and I started my PhD in Automatic Robotic and Bioengineering at University of Pisa that I concluded in May 2010. During my PhD I developed an innovative cell culture chamber for tissue engineering and cellular experiments known as MCB Multi Compartmental Bioreactor. Together with the MCB chamber, I also developed the environmental parameters controller that allows the use of the MCB outside of the standard laboratory incubators. Nowadays, the UK Company Kirkstal.ltd, of which I am a shareholder, commercializes the MCB system worldwide.

Changing my research topic from bioengineering to robotics, I re-adapted my skills and backgrounds. This change affected my publication-rate of the period 2011-2013. However, this gave me the possibility to approach to the robotics and computer science fields with a wider point of view and with a particular attention to the needs of medical and therapeutic professionals with which I frequently collaborate for the design of human-robot interaction studies setups and scenarios.

I am co-inventor of 7 patents, co-author of 45 Scopus indexed publications with 199 citations and h-index of 7 and I am also co-author of 2 book chapters.

Teaching Activity

Since the beginning of my research and academic career I have been involved in teaching and student tutoring activities. In Particular during my PhD I taught *Tissue Engineering and Bioreactors* in the course of *Meccanobiologia* of Prof. Arti Ahluwalia at the University of Pisa. In this course I focused my lectures on the design of an acquisition and control system for the control of the cell culture media parameters aimed at keeping in life the cultured tissues during drug testing experiments and cell culture growing behavior analysis. I also taught in a professional course financed by the Tuscany Region aimed at giving operators of computer controlled machines for industrial production the skills necessary for the maintenance and upgrade of existing assets. In this context I focused my lectures on sensors, actuators and control systems for industrial environment with a special focus on prototyping and testing of innovative solutions and setups.

During academic year 2012-2013 I became professor of the *Biosensors* course at the bachelor degree in biomedical engineering of the University of Cagliari.

I also taught in the 2011-2012 and in the 2014-2015 editions of the Master in Mobile Application Development of the University of Pisa *Sensors for Mobile Devices*.

In the last years I focused my teaching activities also on pro/pre-totyping techniques for Sensors, Electronics and Smart Devices design and building giving lectures at the 2014-'15 and '16 editions of the University of Pisa PhD Plus program. Moreover, I taught at the 2012-2013 edition of the Open Source for Biomedical Engineering summer school that has been organized at the Kenyatta University of Nairobi (Kenya) and financed by UNECA United Nations Economic Commission for Africa.

In 2015 I also taught *Prototype your products* at *INSIDE ICT and Robot* and at the *IRHSI Improve the Resilience of Hard Science Ideas* courses organized by the University of Pisa.

In 2016 I also taught *Designing connected devices* at the Endure Project summer school.

Bachelor, master and PhD student tutoring activity

I tutored almost 100 master and bachelor students during their thesis and academic projects. My students tutoring activity covers all the aspects of the thesis development: lab environment and equipment induction, experiments management, scientific idea development, thesis writing and presentation preparation.

I also tutored 5 PhD students, four of them on the development of an artificial intelligence and robotic control platform for a hyper-realistic humanoid to be used in human-robot social and affective interaction studies. A fifth on the development of a control system for a bioreactor used in tissue engineering and cell cultures research aimed at replicating in-vivo conditions for animal-free drug testing and modeling.

Technology Transfer and Business Modeling Activity

During my PhD I developed an innovative cell culture chamber for tissue engineering and cellular experiments known as MCB Multi Compartmental Bioreactor that has been patented by the University of Pisa. The UK Company Kirkstal.ltd acquired the rights for commercial uses of the patent recognizing me, and the other co-authors, shares of the company. Kirkstal is currently commercializing the product derived by the patent and extended worldwide the validity of the patent.

In 2010 I started a collaboration with the University of Pisa technology transfer office while I also became a consultant of ErreQuadro, a company based in Pisa working on Intellectual Property analysis, assessment and valorisation and also on “design around”. Activities done for the technology transfer institute and with ErreQuadro gave me the possibility to develop skills in business modeling for research and in protection of intellectual property.

I am also a mentor at the *PhD+*, the University of Pisa course on entrepreneurship and technology transfer, and I have been nominated technology expert in the IoT Prize project of University of Pisa (Financed by the Italian Ministry of Economic Development).

I am also involved in the Endure European project as teacher and mentor for startups. In this context in 2016 I taught at the Endure Summer School “Designing connected devices”.

2016 I have been also invited as speaker at various technology transfer oriented events like the panel “Dalla cartella clinica all’IoT e ai Big Data” organized by prof. Paolo Ferragina of University of Pisa in the context of the “Forum della sostenibilità e opportunità nel settore della salute”.

In 2016 I have been also invited by Dott. Albino Caporale from the Tuscany Region department of economical development as Industry 4.0 expert to participate as stakeholder in the Interreg Europe project Trinno.

Startuppering, Crowdfunding and Crowdsourcing

In December 2014, with the support of the University of Pisa and of the *PhD+* course, I founded TOI (Things On Internet) a startup working on the field of the Internet of Things with basis in Pisa and in New York City. The mission of TOI is the development of a set of tools for extending the accessibility of embedded and internet connected technologies beyond the engineering and computer science realms. TOI has a specific focus on improving the interaction between humans and smart objects supporting its customers in the development of social and empathic objects for the Internet of Things.

In February 2015 TOI launched VIPER, its first product on Kickstarter. The process of converting a research tool like VIPER in a product ready for a crowdfunding campaign gave me the possibility to improve my skills in marketing and business modeling in a direction that in future will probably become an interesting alternative also for the financing of research related products and projects.

In 2016 Viper has been renamed, for marketing reasons, in Zerynth and currently counts 6000 free users from 84 countries, 10 supported boards and 5 Industrial Applications.

I am also a co-founder of Pisa’s Living Lab and FABLAB in which I am actively involved as technical coordinator. FABLAB Pisa is building various prototypes of 3D printers based on open hardware and open source platforms and projects. The motto of FABLAB Pisa is “*prototype for research and research for prototype*” this is why, my activity at FABLAB Pisa, allowed me to improve my skills in designing tools and prototyping for research. Moreover, the FabLab Pisa is becoming a very active entity in the Tuscany technology transfer

and entrepreneurship panorama acting as enabler and supporter for various startups and spinoffs interested in prototyping their products and projects.

Scientific and Academic Activity Breakdown

Period	January 2004 → March 2004
Location	Interdepartmental Research Center “E. Piaggio”, Faculty of Engineering , University of Pisa
Description	Scientific collaboration for the development of a software tool and algorithms for the automatic generation of fractal structures that can be micro-fabricated by PAM (Pressure Activated Micro-syringe) as described in the paper: <i>Vozzi G, Previti A, Ciaravella G, Ahluwalia A. “Microfabricated fractal branching networks”, J Biomed Mater Res A. 2004 Nov 1;71(2):326-33.</i>
Period	June 2006 → October 2006
Location	R2D2 Team, Computer Science Department, Faculty of Science, University of Pisa
Description	Development of an innovative embedded operating system for robotic applications called μ TNetOs as part of the project <i>Robotic4.NET</i> granted by Microsoft Research Cambridge.
Period	October 2006 → December 2006
Location	Computer Science Department, Faculty of Science, University of Pisa
Description	Design and development a new “ <i>Tactile flow</i> ” sensor for robotic use in the project <i>Robotic4.NET</i> granted by Microsoft Research Cambridge. The sensor has been patented with reference: PI2006A000119 - 2006.
Period	January 2007 → January 2010
Location	Interdepartmental Research Center “E. Piaggio”, Faculty of Engineering , University of Pisa
Description	PhD on Automatic Robotic and Bioengineering with title: <i>SUITE an Innovative Bioreactor Platform for in vitro Experiments.</i>
Period	January 2010 → December 2013
Location	Interdepartmental Research Center “E. Piaggio”, Faculty of Engineering , University of Pisa
Description	Research assistant on development of modular and sensorized bioreactors for tissue engineering and drug testing.
Period	March 2010 → Today
Location	Interdepartmental Research Center “E. Piaggio”, Faculty of Engineering , University of Pisa
Description	Post Doc on Human robot interaction and wearable systems for physiological signal and movements unobtrusive acquisition.
Period	October 2012 → November 2012
Location	Queen Merry College of London, United Kingdom
Description	Selected as visiting researcher for a Short Term Scientific Mission within the COST scientific programme on European Scientific Network for Artificial Muscles (ESNAM) with he project “Dielectric Elastomer Based Tunable Lens Control System for Focus Adjustment”.

Period	November 2012 → March 2014
Location	Faculty of Engineering , University of Cagliari
Description	Professor of “Biosensors” at biomedical engineering course.
Period	September 2013 → Today
Location	University of Pisa
Description	Referent for integration of hardware and software platforms for Internet of Things in the project IOTPrise.
Period	September 2013 → Today
Location	University of Pisa
Description	Teacher, stakeholder and expert in “Designing of connected devices” for the project Endure led by Prof. Gualtiero Fantoni of University of Pisa.
Period	September 2016 → Today
Location	Tuscany Region and Arezzo Innovazione
Description	Stakeholder and expert in “Industry 4.0” for the project TRINNO financed under the EU financing line Interreg Europe.

Coordination and Management of Research Projects Breakdown

Period	January 2008 → December 2011
Project	Inquiry into Disruption of Intersubjective equipment in Autism spectrum disorders in childhood (IDIA)
Founded by	Project part of Italian “Programma Strategico” of Italian Ministry of Health
Description	Work Package coordination, Design and development of an humanoid android face (FACE) control system and of a pervasive monitoring system for human robot interaction studies on children with Autism Spectrum Disorder (ASD).
Period	February 2010 → Today
Project	Living Labs for the Tuscan Industry (LILIT)
Founded by	Tuscan regional authority, Italy
Description	Member of the scientific board for the research project.
Period	September 2010 → June 2015
Project	The Collective Experience of Empathic Data Systems (CEEDS)
Founded by	European Framework Program 7, FP7-ICT-2009-5
Description	Coordination assistant for the work package 2 “ <i>CEEDS sensing system</i> ” aimed to develop an unobtrusive multi sensor platform for affective state and interest infertion and analysis.
Period	July 2013 → Today
Project	IOTPrise: Internet delle cose, trasferimento di tecnologie e creazione d’impresa
Founded by	Italian Economic Development Ministry (MISE), RIDIT call
Description	Referent for integration of hardware and software platforms for Internet of Things.
Period	November 2013 → Today
Project	Expressive Agents for Symbiotic Education and Learning (EASEL)
Founded by	European Framework Program 7, Grant number 611971
Description	Project Technical Coordinator and Work Package Leader assistant for the University of Pisa <i>WP 3 “Acquisition, analysis and control interfaces”</i> .

Period	October 2013 → Today
Project	Perception visuelle et reconnaissance des émotions dans les troubles du spectre autistique
Founded by	Fondation Orange, France (www.fondationorange.com)
Description	Coordinator of the collaboration between the “Institut d’Etude Cognitive, Ecole Normale Supérieure, Paris” and the Research Center “E. Piaggio” aimed at integrating the FACE robot in the project therapeutic setup.

Teaching Activity Breakdown

Period	Academic year 2009/2010
Location	Faculty of Engineering, University of Pisa
Description	Lectures on “ <i>Tissue Engineering and Bioreactors</i> ” for the course “ <i>Meccanobiologia</i> ” of Prof. Arti Ahluwalia.
Period	Academic year 2010/2011
Location	Faculty of Engineering, University of Pisa
Description	Lectures on “ <i>Tissue Engineering and Bioreactors</i> ” for the course “ <i>Meccanobiologia</i> ” of Prof. Arti Ahluwalia.
Period	Academic year 2011/2012
Location	Faculty of Engineering, University of Pisa
Description	Lectures on “ <i>Tissue Engineering and Bioreactors</i> ” for the course “ <i>Meccanobiologia</i> ” of Prof. Arti Ahluwalia.
Period	June - September 2012
Location	Formetica, Lucca
Description	Professor of the course “ <i>Sensori e Attuatori nei Sistemi di Controllo</i> ” in the regional founded course for professional qualification of “Operator of Controlled Machines” .
Period	Academic year 2011/2012
Location	Computer Science Department, University of Pisa
Description	Professor of the course “ <i>Sensori nei dispositivi mobili</i> ” at master in mobile application development.
Period	Accademic Year 2012/2013
Location	University of Cagliari
Description	Professor of the course “ <i>Biosensors</i> ” at biomedical engineering bachelor degree.
Period	Accademic Year 2012/2013
Location	Kenyatta University, Nairobi Kenya
Description	Professor of the course “ <i>Sensors and Electronic Prototyping</i> ” at the course OS4BME (Open Source for Biomedical Engineering) financed by UNECA United Nations Economic Commission for Africa.
Period	Academic year 2014/2015
Location	Computer Science Department, University of Pisa
Description	Professor of the course “ <i>Sensori nei dispositivi mobili</i> ” at master in mobile application development.

Period	Academic year 2014/2015
Location	University of Pisa
Description	Lectures on “ <i>Sensors for Biomedical Uses</i> ” for the course “ <i>Sensi Naturali e Artificiali</i> ” of Prof. Danilo Emilio De Rossi.
Period	Academic year 2014/2015
Location	University of Pisa
Description	Professor of the course “ <i>Pretotype your products</i> ” at course “INSIDE ICT and Robot”.
Period	Academic year 2014/2015
Location	University of Pisa
Description	Professor of the course “ <i>Prototipazione Elettronica</i> ” at course “IRHSI Improve the Resilience of Hard Science Ideas”.
Period	Academic year 2015/2016
Location	University of Pisa
Description	Professor of the course “ <i>Designing connected devices</i> ” at at the Endure Project summer school.

Professional Collaborations and Activities Breakdown

Period	September 2008 → November 2008
Description	Consultant at Vangogh.Snc (Milano) as designer and developer of a innovative Wiimote TM based tracking system for an augmented reality project aimed to realize a virtual rings testing kiosk. The system was installed at “Biennale di Milano” in occasion of “Eternal Platinum” (Milano, 5-30 Th November 2008).
Period	March 2008 → Today
Description	Pisa’s Living Lab for innovation <i>Leaning Lab</i> Co-founder, system integrator and scientific coordinator for various lab’s projects on product design.
Period	June 2011 → Today
Description	Consultant at <i>ERREQUADRO.srl</i> as coordinator of a project with Biomèrieux (Firenze) aimed at developing a hardware-software platform for testing of embedded and automotive control boards.
Period	November 2012 → Today
Description	Co-Founder of <i>Medita Engineering</i> (www.meditaengineering.com)
Period	December 2012 → Today
Description	Co-founder of <i>Pisa’s Fab Lab for Makers</i> (www.fablabpisa.org), system manager and scientific coordinator for various lab’s projects.
Period	October 2013 → Today
Description	Consultant at <i>JOS Technology</i> (www.jostechnology.com).
Period	December 2014 → Today
Description	Co-Founder of Kinzica Venture LLC (New York, NY, USA) a USA company aimed at supporting the technology transfer of Italian technology, research and startups toward the US market..

Period	December 2014 → Today
Description	Co-Founder of TOI.srl (Zerynth http://www.zerynth.com) (In March 2015 TOI.srl conducted a successful crowdfunding campaign on Kickstarter with its first two products VIPER and the TOI Shield that are both now commercialized under the brand Zerynth™).
Period	October 2016 → Today
Description	Initiator of the Pisa's <i>The Things Network</i> community https://www.thethingsnetwork.org/community/pisa/ for the development of an open Low Power Wide Area Network based on LORA radio technology for IOT devices.

Awards and Honors

Title	Premio di laurea “LaBS 2005”
Date	September 2005
Description	First prize for the best mechanical bioengineering thesis
Title	Premio di laurea Fondazione Graziano Frigato
Date	September 2005
Description	First prize for the thesis “Design and development of a new gradient concentration cell culture chamber for biomedical applications” for its contribution to dialysis research
Title	IEEE ISIE 07 best young researcher paper
Date	June 2007
Description	selected for publication on IEEE Industrial Electronic with title “A high-throughput bioreactor system for simulating physiological environments”
Title	8Th ESA Student Parabolic Flight Campaign
Date	July 2005
Description	Selected with the “NONAP Biomedical Team” in the “8Th ESA Student Parabolic Flight Campaign” organized by European Space Agency. The campaign was in Bordeaux from 11th to 28th July 2005 and the experiment “Verification of the Fitts’ law in microgravity and hypergravity environment and energetic considerations” was performed.
Title	ESA SUCCES 2005
Date	October 2005
Description	Selected for the second phase of “SUCCES 2005” competition organized by the European Space Agency, with a project called “Realization of alginate microparticles for biomedical applications”.
Title	Cover Paper Biotechnology and Bioengineering Journal
Date	May 2010
Description	Selected with the paper: “A low shear stress modular bioreactor for connected cell culture under high flow rates” as cover for the May 2010 Biotechnology and Bioengineering.

Title	Selected by Focus as: <i>One of the 20 Italian researchers you will hear about in the feature</i>
Date	October 2012
Description	In the Italian Journal Focus (October 2012, N 240) has been mentioned in the article: <i>We are building the next 20 years.</i>

Invited Talks

Computer Science Department, University of Pisa	“Development of a high-throughput bioreactor system for biomedical applications” December 4th 2007,
II Annual Quasi-Vivo User Group Meeting	“Engineering and Design Principles behind the McmB Quasi Vivo bioreactor”, Montpellier France, 26-27 May 2010
CYLAB (Carnegie Mellon University)	“FACE Robot as a Social Interlocutor”, September 6th, Pittsburgh PA USA
First International Workshop on Wide Spectrum Social Signal Processing	“Robotic Social Therapy on Children with Autism: Preliminary Evaluation Through Multi Parametric Analysis”, September 3th 2012, Amsterdam Netherlands
Institute Jean-Daniel Nicoud of CNRS of Paris	“Robotic Social Therapy on Children with Autism”, March 2014, Paris, France
Create Business Value with the Internet of Things 2016 organized by Flextronic Italy	“FACE Robot Demo and Presentation”, November 2015, Monza, Italy
Kshitij 2014 organized by IIT kharagpur (the largest technological event in Asia)	“From Internet Of Things to Things on Internet”, January 2014, Kharagpur, India
Forum della Sostenibilità e Opportunità nel Settore della Salute 2016	“Soluzioni IOT per la salute e il benessere”, Settembre 2016, Firenze, Italy

Paper Review for International Journals and Conferences

CHIItaly 2011-2014, IEEE EMBS 2011-2014, Tissue Engineering Journal, American Journal of Autism, Columbia International Publishing, Frontiers in Bioengineering, Living Machines 2012-2015, Journal of Soft Robotics.

Languages

Mother tongue	Italian				
Other language	English				
	Understanding		Speaking		Writing
	Listening	Reading	Listening	Reading	
	C2	C2	C1	C2	C2

Published Sources and Schematics

Zerynth Repository	https://github.com/zerynth/
Zerynth shield Schematics	http://www.zerynth.com/zerynth-shield/
FACE Team Repository	https://github.com/FACE-Team

Publications

International Journal

- [1] G. Ciofani, A. Landi, D. Mazzei e A. Mazzoldi. “Osmolality control by inhalation or micro infusions”. In: *WIT Transactions on Biomedicine and Health* 9 (2005), pp. 559–570.
- [2] Daniele Mazzei, Federico Vozzi, Antonio Cisternino, Giovanni Vozzi e Arti Ahluwalia. “A high-throughput bioreactor system for simulating physiological environments”. In: *IEEE Transactions on Industrial Electronics* 55.9 (2008), pp. 3273–3280.
- [3] A Ahluwalia, F Vozzi, M Guzzardi, C Domenici e D Mazzei. “Organ cross-talk in a multi compartment connected culture bioreactor”. In: *Toxicology Letters* 196 (2010), S132.
- [4] Gianni Ciofani, Antonio Migliore, Daniele Mazzei, Maria Carrozza e Paolo Dario. “Modification of Pointing Performance in Altered Gravitational Environments”. In: *Microgravity Science and Technology* 22 (2 2010). 10.1007/s12217-009-9163-3, pp. 123–128. ISSN: 0938-0108.
- [5] D Mazzei, MA Guzzardi, S Giusti e A Ahluwalia. “A low shear stress modular bioreactor for connected cell culture under high flow rates”. In: *Biotechnology and bioengineering* 106.1 (2010), pp. 127–137.
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