PERSONAL INFORMATION

Giacomo Pennella



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Sex Male | Date of birth 20/01/1983 | Nationality Italian

WORK EXPERIENCE

2023 – Present — CEO and Founder

BEONTECH S.r.l., via Lepanto, 13, 59100 Prato (PO) Italia

beontech.net

Sector IT Consultancy

2017 – 2022 — Project Manager

Generale Sistemi S.r.l., via fra i Campi, 13, 59100 Prato (PO) Italia

generalesistemi.it

- Responsible for receiving and translating client brief's and then organizing the resources required for their projects.
- Addressing the day-to-day activities/queries of team members
- Involved in developing detailed project plans to monitor and track progress

Sector Industrial Automation, EV Charging Systems, RFID Access Control

2016 - 2020 — Co-founder – Technical Lead

In2real (spinoff of Intelli-GO), via Cavalcanti, 5, 20100, Milano Italia

Designing and developing Virtual Reality solutions for products and vehicles prototyping with integration of HCI devices

in2real.com

- Providing IT technical lead services and direction which include software, middleware, and/or hardware projects (e.g., applications, networks, communications, and client server technologies) on a single platform.
- Providing technical expertise in systems, technical infrastructure, tools, modeling, external interfaces, and other areas.
- Completes complex development, design, implementation, architecture design specification, and maintenance activities.

Sector Digital tools and assets, CGI, Virtual Reality for Automotive Product test

2008 – 2022 — Software Developer

Generale Sistemi S.r.l., via fra i Campi, 13, 59100 Prato (PO) Italia

Head of Research and Development in analysis, design and production of technologic solutions mainly based on Radiofrequency Identification (RFId), including:

- Automatic identification and localization of people, vehicles and assets in real time with technologies NFC, LF, (U)HF, BLE (Bluetooth Low Energy), UWB (Ultra-Wide-Band) related to Industrial Automation and Access Control systems.
- Firmware and software development for IoT (Internet of Things) devices and cloud platform for data

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collection, data mining and remote control.
- Design and production of OEM board for Electric Vehicles Charging Stations with Alternating Current
- Video Analysis solutions for RPA, coupled with automatic identification and labelling facilities.

Languages: Asm / C / C++ / NodeJS / Bash / Python | Platform/Architecture: Linux (Embedded) ARM / LAMP server / Android | Frameworks: Unity3D / OpenCV

References http://www.tagitalia.it/it/index.php, http://in-presa.net

EDUCATION AND TRAINING

11/2021 – 04/2026

PhD in Neuroscience

Level 8 QEQ

University of Florence – Firenze

Topics: "Virtual reality tools *to quantify inter-individual differences in perceptual styles*" / "Active vision gates short-term plasticity of ocular dominance"

(ERC2020 – Tuscan PhD in Neuroscience – XXXVIII cycle)
Supervisor: Prof. Paola Binda

09/2012 - 02/2021

Master's Degree in Neuropsychology (LM-51)

Level 7 QEQ

University of Florence - Firenze

Dissertation title: "*Pupillometry and Virtual Reality in studying traits linked to Autistic Spectrum Disorder*"
Supervisor: Prof. David C. Burr
Final grade: 110/110 cum laude

- Psychophysics and Neurology fundamentals
- Neuropsychology and Cognitive Assessment
- Computer Science, Psychological Test

Attachments CertTitoloconEsami_LM51.pdf

09/2008 - 12/2011

Bachelor's Degree in Psychology (L-24)

Level 6 QEQ

University of Florence – Firenze

Dissertation title: "*Physical activity, cognitive decline in the elderly and Alzheimer's disease*"
Supervisor: Prof. Nicoletta Berardi
Final grade: 102/110

- General Psychology, Psychopathology
- Psychobiology, Neurobiology
- Statistics, Psychometry, Matlab and R

Attachments CertTitoloconEsami_L24.pdf

09/1997 - 06/2001

High School Scientific Diploma

Level 5 QEQ

Liceo Scientifico Carlo Livi – Prato

PERSONAL SKILLS

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Communication skills

I consider myself a sociable guy and I'm open to new experiences. During my work experience I developed the attitude to work in a team.

Organizational / managerial skills

Teamwork: more than 12 years of experience in teamwork, dealing with communication and planning activities: I learned how to apply delegation mechanisms in order to spread the workload and increase the productivity of the team

Leadership: currently responsible for multiple teams of 2-5 people

Job-related skills

Deep knowledge of Unix-platform based Software development processes, with full stack capabilities in analysis, testing and programming
Developing languages and protocols: C/C++, Python, HTML, PHP, Javascript, NodeJS
Linux Embedded based boards ARM based: Raspberry PIs, BeagleBones, STM32
OS: Windows, Linux, MaxOS, Android
DB management: PostgreSql, MongoDB, Sqlite3
Graphic API: OpenGL, QT, OpenCV.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Independent user	Proficient user	Proficient user

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing and vector/3D graphic software gained in Virtual Reality projects

Driving license

B

ADDITIONAL INFORMATION

Publications

Steinwurzel, C., Pennella, G., Morrone, M.C., Sandini, G., and Binda, P. (2026). "Visually guided voluntary actions boosts short-term ocular dominance plasticity". Scientific Reports, 16, 21243 (2026)

Steinwurzel, C., Pennella, G., Binda, P. (2025). "Short-term monocular deprivation in adult humans: a meta-analysis and new perspectives". Proceedings of the Royal Society B, 1 December 2025; 292 (2061): 20252487

Steinwurzel, C., Pennella, G., Morrone, M.C., Sandini, G., and Binda, P. (2025). "Monocular delay during visually guided actions is as effective as monocular deprivation in driving ocular dominance plasticity". Scientific Reports, 15, 34743

Collaborations

Consultant and Author of the Software "Allena-Mente" developed for Ass.Ca ("Associazione Cerebrolesioni Acquisite") realeased by Prosolidar in 2015 for Aphasia treatment.

Privacy

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

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