

RICCARDO PELLICCIA, PHD

PERSONAL

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PERSONAL SUMMARY

I am an Electronic Engineer with a wide work and research experience in the Wireless Sensor Network, Hardware Electronics, and Biorobotics fields. I recently acquired my PhD working on Wireless Sensor Networks with specific applications in Industrial Plant Monitoring and Intelligent Transportation System. After my PhD I moved on to work on a project in Biorobotics developing an Underwater Autonomous System. Through these projects I have learned to design, develop, and maintain electrical systems and components to the required safety, reliability, and quality specifications. The focus of my technical experience has been to balance both programming skills and practical skills in the handling and development of electronic products. I have always worked in a team environment, and collaborated both with other academic institutions both in Italy and abroad as well as private enterprises in coordinated projects.

WORK & EDUCATION

PERIOD	April 2015 — Present
EMPLOYER	Scuola Superiore Sant'Anna, BioRobotics Institute, Pontedera (Italy)
JOB TITLE	Research Fellow on Bio-Inspired Robotics and Industrial R&D
FEB. 2015	Professional engineering qualification (Italian National Examination)
PERIOD	November 2011 — November 2015
DEGREE	PhD Student, curriculum Embedded System
UNIVERSITY	Scuola Superiore Sant'Anna, Pisa (Italy)
PERIOD	March 2011 — November 2011
EMPLOYER	National Interuniversity Consortium for Telecommunications, Pisa (Italy)
JOB TITLE	Electronic Engineer Researcher and Developer
PERIOD	October 2002 — February 2011
DEGREE	Degree and Master Degree in Electronic Engineering
UNIVERSITY	Universita' Politecnica delle Marche, Ancona (Italy)

RESEARCH AND WORK EXPERIENCE

For my undergraduate project I developed a data logger on a SD-Card including the board routing, PIC program, and the soldering of all components and for my master degree project I developed a VANET board with an ARM processor, a Linux Embedded O.S., a CAN BUS interface and a wireless transceiver. I also developed a board (master and slave) that implements the D.A.L.I. bus (on PIC18 architecture) and a DC/DC converter with an internal capacitor (with Cadence software). For my graduate project I worked on Wireless Sensor Networks for Industrial Plants and Intelligent Transportation Systems, for which I acquired advanced skills on C-code programming, VHDL, and other programming languages, as well as a lot of experience on testBed installation and on working in teams and with other groups. After my PhD moved on to the fields of biorobotics and mechatronics, for which I acquired new specific skills such as motor control, and learned to work on a variety of systems, including Arduino.

LANGUAGES

ITALIAN	Mother tongue.
ENGLISH	I am a proficient English speaker, having studied the language for eight years and attended an eight-weeks English school in the UK (EC English School Oxford).

SKILLS

○ Personal

I have vast theoretical and practical skills in mechanical, electrical and electronic engineering. I have often worked in groups on various projects in industrial research, for which I developed problem-solving skills, and I easily work with other people. I am also happy to work long hours and travel.

○ IT

PROGRAMMING	C, Arduino IDE (advanced programming skills); LabVIEW, MATLAB, PLC programming (good skills); Python, VHDL (working knowledge).
O.S.	Linux, DOS, Windows, ERIKA Enterprise (RTOS).
CPU	x86, ARM processor, PIC.
NETWORKING	Ganglia (working knowledge).
ELECTRONIC	Eagle CAD, KiCad; Cadence (standard user).
DESIGN	AutoCAD LT (advanced user), SolidWorks (working knowledge).
TOOLS	SVN, Vi, \LaTeX (standard user).
BOARD	Arduino, RaspBerry (good skills).
OTHER	Office and OpenOffice (advanced user).

Advanced practical knowledge and experience in the handling, use, repair, maintenance, and overhaul of circuit boards, processors, electronic and computing equipment both at the hardware and software level.

○ Practical

I have experience in the set-up of TestBeds and demos: sensors planning, preparing and packing boards, supervising to all mounting and outsourcing operations, problem solving during the TestBed site preparation.

○ Other

My family has a business involved in repairing crawler cranes and other heavy machinery, in parallel with my university studies, I developed a passion and practical skills for all sorts of mechanical systems, such as engines, pneumatic and hydraulic systems and metal welding (both arc and oxy-fuel).

HOBBIES

Sport (free diver, scuba diver E.S.A. License n°31443, free climbing, running, swimming);
Culture (theatre, music, reading).