

CURRICULUM VITAE

Personal details:

Francesco Damiani

Born in Livorno ITALY 1 Jun 1972

Living in P.zza Micheli, 9

Livorno ITALY

Phone: +39 (0)586 882278

Phone: +39 328 9033513

e-mail: damiani.f@tiscali.it

Education:

Feb 2000. BSc. degree in Electronic Engineering at Pisa University in Italy.

2002. Training course about 'Innovation Management' at Scuola Superiore Sant'Anna, Pontedera ITALY.

Languages: Native speaker Italian, English advanced, IELTS 6.5 (R6, L6.5, W6, S7) at Navitas English Sydney NSW Australia, Advanced Certificate at Sydney College of English, Sydney NSW Australia.

Employment:

Jan-2015-now Full time collaboration with Scuola Scuola Superiore Sant'Anna working on SUONO project. In charge of developing electronic systems for marine application.

Dic-2012 Dic-2014. Full time collaboration with Scuola Scuola Superiore Sant'Anna working on PolyWec european project. In charge of developing electronic control systems for wave energy conversion.

Mag-2012 Aug-2012. Part time collaboration with MAR in Sydney Australia <http://www.machineryautomation.com.au/>. I was in charge of designing control systems for industrial machinery. PLC programming, HMI, SCADA.

Oct-2009 Feb-2012. Full time work at Drass Underwater Technology. I was in charge of automation design for diving systems and hyperbaric chambers. <http://www.drass.it/> I designed automation for automatic medical hyperbaric chambers. We installed the system into an hospital in Milan Italy. I developed automation for commercial diving hyperbaric systems. I designed automation and control for life support systems. It requires knowledge and application of functional safety norms such as IEC61508. All the systems designed must comply to functional safety standards. I developed also SCADA systems for diving hyperbaric system. I also developed knowledge about underwater electric systems and application of norms to underwater systems.

Oct-2002 Oct-2009. Full time collaboration with ARTS (Advanced Robotics Research Center) of Scuola Superiore Sant'Anna in Pontedera (PI) Italy. Scuola superiore Sant'Anna is an excellence university and research centre. <http://www-arts.sssup.it/> I was in a research team as electronic designer. I provided electronic solutions for robotics and microrobotics research. I developed a plenty of electronic circuits for many different applications. Starting from the idea to the circuit design and programming, realization and integration. I also published some scientific papers and patent. This job requires team working and creativity.

Jun-2000 Oct-2002. Full time work at ST microelectronics in Agrate Brianza (MI) Italy working as test engineer. ST is the biggest microelectronics producer in Italy. I was involved in microchip testing. <http://www.st.com/stonline/>. I was in charge of designing and controlling the automatic testing of microelectronic products on wafer. Analysing the testing result with statistic tools I had to take corrective actions to maximize the production process yield. This job required team working with production and design fellows to improve device yield. The products were mainly automotive and audio integrated circuit.

Feb-2000 Jun-2000. Full time collaboration at Protecno srl in Pisa (PI) Italy as electro-magnetic compatibility technician. Good knowledge of electromagnetic compatibility norms.

Aug-1999 Feb-2000. Part time collaboration at the electronic lab of Electric Systems and Automation Department at Pisa University as electronic technician. I was in charge of designing and assembling PCB for motor control.

Skills:

Automation and control: *experience of automatic control systems design and commissioning. PLC, HMI, SCADA (Siemens, Omron mainly), PC based automation. Good knowledge on instrumentation and actuators. Functional safety oriented automation (IEC61508). P&I design (ISA-5.1-1984). Software for automation developed in accordance with ISO25010 (or IEC62304 medical devices).*

Robotics: Robots control. Autonomous navigation, obstacle avoidance and robots cooperation. Autonomous marine robots. Underwater robotics.

Informatics: windows, linux, macOS, solaris operating systems. Knowledge of C, Assembler, Visual Basic programming languages. I can use AUTOCAD, COMSOL, MATLAB, LABVIEW.

Electronics: microelectronic silicon device testing. Good knowledge of electro-magnetic compatibility. Experience in electronic measurements. Microcontrollers programming. Electronic circuit design, simulation and prototyping. Orcad Cadence. PLC, SCADA. Underwater electronics systems.

Scientific publications:

“A micro flow-meter for closed-loop management of biological samples”
D.Accoto, F.Damiani, M.Campisi, P.Castrataro, D.Campolo, E.Guglielmelli, P.Dario. Engineering in Medicine and Biology Proceedings.

“A soft-lithographed chaotic electrokinetic micromixer for efficient chemical reactions in lab-on-chips” M.Campisi, D.Accoto, F.Damiani, P.Dario.

“A slip sensor for biorobotics applications using a hot wire anemometry approach” D.Accoto, R.Sahai, F.Damiani, D.Campolo, E.Guglielmelli, P.Dario

“A mechatronic toy for measuring infants’ grasping development”
Cecchi, F.; Serio, S.M.; Perego, P.; Mattoli, V.; Damiani, F.; Laschi, C.; Dario, P.

“A thermal slip sensor for biorobotic applications”
D. Accoto, F. Damiani, R. Sahai, D. Campolo, E. Guglielmelli, P. Dario

Patents

FI2006A000185

‘Dispositivo microfluidico per generare elettrocineticamente moti convettivi’
(Microfluidic device for electrokinetic generation of convection)

D.Accoto, M.Campisi, F.Damiani, P.Dario.

European Projects Collaborations

- Polywec, (<http://www.polywec.org/>)
- Hydronet (<http://www.hydronet-project.eu/>)
- TACT (<http://tact.unicampus.it/index.aspx>)
- NINIVE (http://cordis.europa.eu/result/rcn/50369_en.html)
- Neurobotics
- Good-Food

I hereby authorize the use of my personal details solely for circulation within the company in relation to the Italian Legislative Decree n° 196/2003

Livorno 26/02/2015

Francesco Damiani