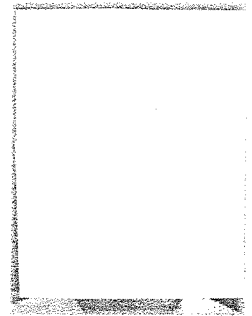




Curriculum Vitae



Personal information

First name / Surname **Erik ZORZIN**

Addresses

Telephone

E-mail

Nationality **Italian**

Date and place of birth **12/02/1978 - Trieste**

Gender **..**

Desired employment / Occupational field **Electronic hardware designer, project manager
Electronics / technology / research**

Work experience

Dates **From May 2010 to date**

Occupation or position held **Production Engineer/Testing Engineer**

Main activities and responsibilities **Production Engineer, analyst of high volumes of production data, data mining, production reverse engineering regarding GSM/UMTS/HSDPA/HSUPA machine-to-machine oriented wireless communication modules, factory production chain main inspector and process optimizer. Software and hardware developer of automatic testing systems involving microwave radio frequency equipment and computer controlled thermal climatic chambers.**

Name and address of employer **u-blox Italia S.p.A. Wireless R&D center, Via Stazione di Prosecco, 15 - 34010 Sgonico (Trieste)
<http://www.u-blox.com>**

Type of business or sector **Telecommunications**

Dates **From January 2010 to May 2010**

Occupation or position held **Quality inspector/Functional tester**

Main activities and responsibilities **Quality inspector at the functional testing of fiber optics devices for high speed communications. Specialist in laser and electro-optical components tuning.**

Name and address of employer **Alcatel-Lucent S.p.A., Strada Monte d'Oro, 14, 34148 TRIESTE
<http://www.alcatel-lucent.com>**

Type of business or sector **Industrial electronics, telecommunications**

Dates **From February 2009 to December 2009**

Occupation or position held **Project manager/Electronic designer**

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Main activities and responsibilities Project manager, design and construction of an unmanned air vehicle (UAV) for flying loads up to 1 ton launched from 10,000 m controlled by GPS (U-Blox)
 Project manager, design and construction of a LIDAR (optical-laser radar) prototype for the detection and measurement of the speed of distant wind without contact.
 Electronic designer, designer and integrator of various electronics like IMUs (Inertial Measurement Systems), autopilots, thermal infrared cameras, wireless data links and sensors for unmanned air vehicles used for military and civil avionic surveillance applications. Some experience in the aerospace sector.
 Main responsible of the BRAINCAP project for the development of a neuronal interface as automatic co-pilot assistant system during complex maneuvers through EEG recordings feedback.

Name and address of employer U.T.R.I. (Unmanned Technologies Research Institute) S.p.A., via del Follatoio 12, 34147 Trieste (ITALY), <http://www.utri.it>

Type of business or sector Aerospace, UAV (Unmanned Air Vehicles), military systems

Dates From July 2007 to February 2009

Occupation or position held Electronic designer

Main activities and responsibilities Self-employed professional, support to S.I.S.S.A. (see further below) as external consultant for the design and construction of electronic and informatic systems

Name and address of employer Erik ZORZIN, via Manzoni 3, 34138 Trieste (TS), <http://www.zorzin.com>

Type of business or sector Electronic/informatic consultant

Dates From September 2002 to February 2009

Occupation or position held Electronic designer

Main activities and responsibilities Laboratory technician:

- design and construction of various kinds of optical sensors, used for the detection of the position and for the training of animal subjects in behavioural psychology experiments
- design and construction of mechanical piezoelectric actuators for the tactile stimulation of laboratory animal subjects
- design and construction of recording methods for high speed movies in visible and infrared light
- design and construction of mazes and experimental computer-aided mechanized setups for animal training
- design and construction of amplification and wireless transmission systems for neuronal biometric signals
- design and construction of various electromagnetic shielding systems (Faraday cages) for electrophysiology experiments
- editing of grant applications for scientific projects (regional and European grants)

Name and address of employer S.I.S.S.A. (Scuola Internazionale Superiore di Studi Avanzati), via Beirut 2-4, 34014 Miramare (TS), <http://www.sissa.it>

Type of business or sector Cognitive neuroscience, research

Education and training

Dates 2006

Title of qualification awarded Diploma of participation and completion of the course

Principal subjects/occupational skills covered ICTP-INFN Advanced Training Course on FPGA Design and VHDL for Hardware Simulation and Synthesis

Name and type of organisation providing education and training ICTP (International Centre for Theoretical Physics), strada Costiera 11, 34151 Trieste – INFN (Istituto Nazionale di Fisica Nucleare), via Valerio 2, 34127 Trieste

Dates 2005

Title of qualification awarded Diploma of participation and completion of the course

Principal subjects/occupational skills covered ICTP-SISSA Fourth Borsellino College on Neurophysics

Name and type of organisation providing education and training ICTP (International Centre for Theoretical Physics), strada Costiera 11, 34151 Trieste – SISSA (Scuola Internazionale Superiore di Studi Avanzati) via Beirut 2-4, 34014 Trieste

Dates 1997 – 2002
 Title of qualification awarded Attended 5 years and passed 26 exams of the University Laurea Degree in Physics
 Principal subjects/occupational skills covered Physics, mathematics, physics of semiconductor devices
 Name and type of organisation providing education and training Università degli Studi di Trieste, Faculty of Mathematical, Physical and Natural Sciences, Department of Physics, piazzale Europa 1, 34127 Trieste – ITALY

Dates 1992 – 1997
 Title of qualification awarded Industrial expert chief technician in electronics and telecommunications (grade 60/60)
 Principal subjects/occupational skills covered Analog and digital electronics, knowledge in manual mechanics and machines tools, informatics, radio and digital telecommunications
 Name and type of organisation providing education and training ITIS G.Galilei, via Puccini 22, 34170 Gorizia (GO)

Personal skills and competences

Mother tongue **Italian.** Very good skill in both oral and written production

Other language **English.** Very good and fluent, developed in several years of work in a scientific international environment (SISSA <http://sissa.it> – ICTP <http://www.ictp.it>), also with active participation in scientific projects with international partners, and working in Italy and abroad together with international companies.

Self-assessment
 European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Advanced	C2	Advanced	C2	Advanced	C2	Advanced	C2	Advanced

(*) European language reference frame

Social skills and competences

Excellent relational skills developed in international environments (national and international research centres). Great interest towards different cultures and traditions (friendship with colleagues coming from different places of the world). High attitude in group interaction and direct comparison, also competitive (karate, mountain hiking, bicycle hiking)

Organisational skills and competences

Excellent skills in autonomous and group organisation. Very good ability in leading a workgroup (5 people), developed in 7 years at SISSA where I created a team of engineers and a research and development laboratory of electronics and automation supporting the cognitive neuroscience department of the institute. Great ability in leading a project in the electronics/technology/research sector

In detail:

1. knowledge and organisational skills developed at U-BLOX Italia:
 methods and organisational model experience in holding responsibilities and decision making regarding an industrial production with high volume of products (> 5 millions pcs per year).
2. knowledge and organisational skills developed at ALCATEL/LUCENT:
 working methods and organisational models experience in joining a big company (about 80000 employees in 130 countries worldwide)
3. knowledge and organisational skills developed at UTRI:
 - a. management of military documentation and procedures (MIL standards)
 - b. management of the customer/supplier relations within project delivery deadlines

Technical skills and competences

4. knowledge and organisational skills developed as self-employed professional:
 - a. auto-organisation ability in accountancy, relations with the suppliers and all the administrative duties required and involved while leading a personal firm
5. knowledge and organisational skills developed at SISSA:
 - a. ability of analysis and finalization of projects, from the initial phases of feasibility study, till the management of the budget and the deadline
 - b. presentation of the results, in form of written documentation, article or lectureability of working in and/or coordination of a development workgroup

A lot of different skills in various sectors, of which: physics, mathematics, cognitive neuroscience, electronic and informatic engineering, optics, signal processing, image processing, mechanics, aeronautics, telecommunications, electrophysiology, electromagnetic shielding, automation and control, scientific/technical articles and presentations editing (in Italian and English), grant application editing, production of written documentation and handbooks

In detail:

1. knowledge and technical skills developed at U-BLOX:
methods for analyzing high volumes of data, methods for producing high volumes of electronic devices, methods for setting up and maintaining a factory production chain, basic knowledge about GSM/UMTS wireless networking, methods for testing RF devices in the microwave range.
2. knowledge and technical skills developed at ALCATEL:
experience about electro-optical components (lasers, optical modulators, chromatic dispersion compensators) used in high speed fiber optics telecommunication systems.
3. knowledge and technical skills developed at UTRI:
 - a. design of rugged electronics compliant with MIL standards
 - b. fundamentals of aerodynamics and aerial navigation
2. knowledge and technical skills developed as self-employed professional:
 - a. management of a personal firm
3. knowledge and technical skills developed at SISSA:
 - a. usage of the Altium Designer software for the design and production of printed circuit boards (PCB)
 - b. fundamentals (theoretical and practical) of neurosurgery on laboratory animal subjects and acute and chronic electrophysiology
 - c. editing of scientific/technical articles (in Italian and English)
 - d. research grants

Computer skills and competences

Very deep knowledge of Altium Designer, the software for the design, drawing and fabrication of PCBs (Printed Circuit Boards):

- usage of the schematic editor, PCB editor, CAMtastic and creation of libraries linked via SVN server
- usage of digital and analog simulators
- usage of the debug and validation DRC tools
- usage of the FPGA VHDL programming tool

Very good knowledge of standard C, C++, language (Windows) and Objective C (Macintosh), also used for programming microcontrollers (PIC, dsPIC, Freescale and others).

Excellent knowledge of Matlab language, particularly for the Signal Processing Toolbox.

Knowledge of all the fundamental text and graphical editing software and CAD programs. (Office, Photoshop, Corel Draw, Rhinoceros, Autocad and others)

Driving licence

B car driving licence

Publications and acknowledgements

- articles in press:

1: Hipp J, Arabzadeh E, Zorzin E, Conradt J, Kayser C, Diamond ME, Konig P

Texture signals in whisker vibrations

J Neurophysiol. 2006 Mar;95(3):1792-9. Epub 2005 Dec 7

PMID: 16338992 [PubMed - indexed for MEDLINE]

2: Arabzadeh E, Zorzin E, Diamond ME

Neuronal encoding of texture in the whisker sensory pathway

PLoS Biol. 2005 Jan;3(1):e17. Epub 2005 Jan 11

PMID: 15660157 [PubMed - indexed for MEDLINE]

- chapters in books:

1: Diamond ME, Zorzin E, Arabzadeh E

Neuronal encoding of natural stimuli: the rat tactile system

Novartis Found Symp. 2006;270:18-31; discussion 31-7, 51-8. Review. PMID: 16649706 [PubMed - indexed for MEDLINE]

- prizes:

1: UNISCO prize – StartCUP Udine 2008: 1° award (15.000 euro) for the project

"*NeuroTelemetry* - sistema digitale wireless per l'acquisizione di segnali neuronali"

- patentes:

1: Diamond ME, Zorzin E, Perkon I

NEUROTELEMETRY: "Sistema mobile per l'acquisizione di potenziali d'azione neuronali e la loro trasmissione telemetrica in tempo reale per via digitale senza fili" (Italian patent deposited, now in phase of confirmation N. PD2006A000348, 21 September 2006 C.C.I.A.A. of Padova)

2: Diamond ME, Zorzin E, Perkon I

NEUROTELEMETRY: "A mobile system for acquiring neuronal action potentials and the wireless digital real-time telemetric transmission thereof" (European patent deposited, now in phase of PCT negotiation)

- speaker in conferences:

1: "Whisker dynamics during motion across object surfaces", Barrel Cortex meeting 2004 - EPFL (Ecole Polytechnique Federale de Lausanne) Lausanne, Switzerland

2: "*NEUROTELEMETRY*", FPGA microelectronic workshop 2006 - ICTP (International Centre of Theoretical Physics) Trieste, Italia

3: "*NEUROTELEMETRY*", European bioethic committee kickoff meeting 2007 - SISSA (Scuola Internazionale Superiore di Studi Avanzati) Trieste, Italy

4: "*NEUROTELEMETRY*", BIOTACT kickoff meeting 2008 - Goldene Rose Hotel Brunico, Italy

5: "An optical artificial whisker", Bristol Robotics Laboratory - Bristol, UK

- participation in scientific projects:

1: AMouse - Artificial Mouse, IST European Programme FP6.

2: *NEUROTELEMETRY* - IIT Italian Institute of Technology, Genova.

3: BIOTACT – BIOMimetic Techonology for vibrissa ACtive Touch - IST European Programme FP7

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Signature

