

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Name **BRINDESI CANALI CARLO**
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Nationality Italian
Sex/Date of birth M - 05/10/1979

WORK EXPERIENCE

- Aprile 2013 – today **IIT – Istituto Italiano Tecnologia Genova (ADVR Advanced Robotic)**
Postdoctoral Researcher
Design and commissioning of control systems to be used with two robotic grippers into the AUTORECON project (www.autorecon.eu).
It is my responsibilities to develop the control electronics and real time software (Linux/Xenomai) of two robotic grippers to be used into an automotive environment.
- May 2011 – March 2013 **University Of Zurich Rämistrasse 71, 8006 Zurich, Switzerland**
CERN - The European Organization for Nuclear Research
I've designed the analogue and digital electronics used for a detector at CERN in Geneva (Aegis experiment). I have used circuit design programs (Altium Designer and OrCad). I've also realized the digital part of the system based on FPGA Xilinx Spartan6 programmed in VHDL. I've developed the user interface in LabView.
- May 2009 – April 2011 **Università Degli Studi di Genova (Italy) / INFN Istituto Nazionale Fisica Nucleare Sez. Genova V.Dodecaneso 33 16100 Genova (IT) / CERN Geneve**
Responsible for the development and testing of real-time control systems based on LabView RT, design and manufacture of custom electronics based on FPGA (Actel) for the AEgIS experiment (CERN)
- February 2008 – April 2009 **Max Planck Institute for Nuclear Physics, Heidelberg Germany (Saupfercheckweg 1, 69117 Heidelberg, Germany)**
Responsible for the design and realization of electronics, control systems and data acquisition of the UNIC experiment on negative ions laser cooling

EDUCATION AND TRAINING

January 2005 – December 2008

Ph.D. in Physics

Università Degli Studi Di Genova (Italy)

Title of the thesis: "Antihydrogen experiments: experimental techniques from ATHENA to the AEGIS proposal."

Main topics: Hardware (data acquisition and control systems, electronics), C/C++ data analysis and Montecarlo simulation, LabView, data acquisition systems

July 2004

Diploma in Physics

Grade: 110/110

Università Degli Studi Di Genova

Title of the thesis:

"Non destructive plasma diagnostic in the AEGIS experiment"

Main topics: Hardware (RF signal detection, electronics design & commissioning), data analysis, LabView

July 1998

Diploma Di Maturità Scientifica / High school diploma Grade: 60/60

Liceo Scientifico Statale E. Fermi Genova (Italy)

Mother tongue

Italian

English

French

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
Very good	Very good	Very good	Very good	Very good
Basic	Basic	Basic	Basic	Poor

ORGANISATIONAL / MANAGERIAL SKILLS

Over the years my duties of coordination and organization have grown and I have been involved in projects increasingly important.

I have worked in environments where it was vital the ability to coordinate with dozens of researchers and organize the work for the construction of extremely complex experimental apparatus

Outside of work I have collaborated in the organization of sports events such as the 24 hour mtb race in Finale Ligure (Italy), I was founder and president of the Sports Club "Alpi Del Sole".

COMMUNICATION SKILLS

I have always worked in international environments, developing the ability to work in team.

Much of my experience is gained in experiments based on the collaboration of many researchers from different institutions and countries.

Firmly convinced of the value of communication, I worked as a tour guide at CERN in Geneva, and I have collaborated on several editions of the Festival of Science in Genoa.

TECHNICAL SKILLS**VHDL/Programmazione FPGA**

Very good command of FPGAs. I've realized several projects using FPGAs programmed in VHDL, using ACTEL and XILINX devices.

Microcontrollori/DSP

Ho lavorato con vari microcontrollori (STM8/32, Arduino) e DSP (analog Device) utilizzando vari linguaggi di programmazione tra cui Assembler, ottenendo un livello di conoscenza molto buono riguardo a questi dispositivi.

Altium Designer 10 / OrCad

Very good skills in using programs for PCB-design (schematics and layout)

LabView / LabView RT / Data Acquisition

Excellent knowledge of LabView, LabView Real Time, PXI systems

C/C++

Experience with programming in C and C++. I've realised several projects of data analysis and Montecarlo simulations.

Data Analysis

Experience with programming in C and C++. I've realised several projects of data analysis and Montecarlo simulations.

Excel / Office

Good command of Excel and the Microsoft Office programs (Word, Power Point).

PHP/MySQL, HTML**Linux Xenomai****CAN bus****Varie**

Basic/good knowledge of operating systems (Linux and Windows), Wolfram Mathematica, Origin. Basic use of Solid Works.

PUBBLICATIONS

More than 25 publications in reviewed Scientific Journals

HOBBIES

Amateur actor with the company "Teatro e Contorni", I played roles in plays based on the works of Chekhov, Antoine de Saint-Exupéry, Max Aub, W. Shakespeare

Amateur photographer.

Mountain Bike Instructor F.C.I. (Federazione Ciclistica Italiana)

Scuba Diver License SSI Level 1

DRIVING LICENCE

Patente di guida tipo B

ULTERIORI INFORMAZIONI**References**

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Professor Claude Amsler
Albert Einstein Center for Fundamental Physics University of Bern
claude.amsler@cern.ch (English)