

PERSONAL DATA

Age: 32, Born in L'Aquila, Italy, July 5, 1977 **Sex:** Male **Nationality:** Italian

Home Address: Via Centrale # 35, 67042 Civita di Bagno L'Aquila (ITALY)

Phone: +39 0862 751215 (Home), +39 320 7214179 (Cell)

Home page: <http://www.advancedsourcecode.com> **Email:** luigi.rosa@tiscali.it

EDUCATION

April 2002 **Master Degree (Laurea)** in Electric Engineering Grade 110/110 University of L'Aquila, Italy

Thesis: **Solitonic electro-holography and optical beam manipulation**

August 1997 **Scientific Lyceum Diploma** at "A. Orsini", Ascoli Piceno (High school), Italy (Italian "Maturità Scientifica" equivalent to International Baccalaureate) Grade 60/60

CURRENT JOB

Teacher at IMS "Domenico Berti", Turin (Italy).

OTHER ACTIVITIES

Web Administrator of www.perdonanza.it, the official website of the "Perdonanza Celestiniana" (the Pardoning of Celestine V), supported by the Regione Abruzzo

PATENTS

- *"Non-conventional biasing scheme for re-configurable bulk optical beam polarization converters based on centrosymmetric photorefractive crystals"*, U.S. Patent, pending
 - *"Ditale per filo interdentale anti-blocco della circolazione sanguigna del dito"*, Italian Patent No. 0001364073 (2009)
 - *"Sistema ausiliario per l'effettuazione di procedure mediche diagnostiche o interventistiche endocorporee in vivo con uso ridotto di scansioni RX"*, Italian Patent No AQ2006A000020 (2006)
-

PUBLISHED ARTICLES

- Claudio Crognale and Luigi Rosa, "Vector Analysis of the Space-Charge Field in Nonconventionally Biased Photorefractive Crystals", *Journal of Lightwave Technology*, Vol. 23, No. 6, pp. 2175-2185, June 2005
-

CONFERENCE PROCEEDINGS

- Claudio Crognale and Luigi Rosa, "Polarization conversion induced in a non-conventionally biased centrosymmetric photorefractive crystal", *Optical Networks and Technologies*, Springer, pp. 587-594, 2004
 - Claudio Crognale, Luigi Rosa and Stefano Caputo, "Optical Pulse Compression in Single-Mode Fibers Induced by Cross-Phase Modulation in Semiconductor Optical Amplifiers", OAA-COTA 2006
 - Danilo Franchi, Luigi Rosa, and Giuseppe Placidi, "A Segmentation Algorithm for X-ray 3D Angiography and Vessel Catheterization", AIP Conf. Proc., Volume 1060, pp. 260-263, 2008
-

POSTER PRESENTATIONS

- OPNETEC 2004, Optical Networks & Technologies Conference, Pisa, Italy October 18-20, 2004
 - Optical Amplifiers and Their Applications (OAA) Topical Meeting or the Coherent Optical Technologies and Applications (COTA) 2006, Westin Whistler Resort and Spa in Whistler, British Columbia, Canada, June 25-30, 2006
-

WORK EXPERIENCE

- 2008-2009: Teacher at IPSIA "Romolo Zerboni", Turin (Italy)
 - 2007-2008: Teacher at ITIS "Ettore Majorana", Grugliasco, Turin (Italy)
 - 2006-2007: Software developer at REA Multimedia L'Aquila (Italy)
 - 2004-2005: Software developer at SIEMENS CNX S.p.A. L'Aquila (Italy)
 - 2003-2004: Apprenticeship at SIEMENS CNX S.p.A. L'Aquila (Italy)
 - 2002-2003: Training at REA Multimedia L'Aquila (Italy) <http://www.reamultimedia.it>
 - 2002-2003: Apprenticeship at Echo3 Rome (Italy)
-

PROFESSIONAL COURSES

- 2002: "Web Master Culturale" financially supported by the Regione Abruzzo
-

COMPUTER SKILLS

Programming languages: C/C++, Assembler, Pascal, PHP, ASP, MySQL, Javascript, Java

Operating systems: WinNT/2K/XP, Linux, DOS

CAD: Matlab, Octave, Scilab, Python

Code Analysis Tools: ClearCase, Source-Navigator, Data Display Debugger

Office Applications: OpenOffice, Word, Excel, FrontPage, PowerPoint, WordPad, Adobe Reader, GSview, Macromedia Flash, Macromedia DreamWeaver, Winzip, WinRAR

LANGUAGES

English, Italian (native language)

AUTORIZATION

I grant my permission for my personal information to be used, according to the Italian law DLG 196/03.