

Dr. Daniele Munaretto

Telecommunications Engineer

via Faggin 48
Vicenza, 36100, ITA
☎ +39 327 0741793



Personal Information

Date of Birth December 4, 1982
Place of Birth Vicenza, Italy
Nationality Italian
E-mail daniele.munaretto@gmail.com

Summary

Senior Telecom Engineer with experience on the design, development, deployment and sale of services for mobile communication networks.

Deep knowledge acquired from the academia and industry of the whole engineering path, from the idea to the market, through the translation of client requirements to service design choices. Among the most relevant telecom topics faced in the career: software-defined networking (SDN), Internet of Things, sustainable green networks, content delivery networks, quality of experience (QoE) based solutions for video on demand and streaming over mobile networks, resource allocation and scheduling policies. Joint participation with top world-class research centers and industry players in EU projects (e.g., MEDIEVAL, SAPHYRE) and standardization activities. Authorship of several journals, papers, EU/US/JP patent applications and elected as TPC member and chair of several International conferences. Coordination of groups and project leader for the development of eco-friendly and smart solutions in the broad fields of logistics, telecom, and Internet of Things.

Experience

- 2014 – present **Patavina Technologies and University of Padova, Italy.**
The main activity focuses on the design and development of video transport optimization techniques for current (LTE) and next generation mobile networks (LTE-A and 5G). Energy saving and harvesting aspects for heterogeneous networks (WiFi, FemTo, eNodeB) are currently matter of analysis (Horizon 2020).
- 2011 – 2013 **Consorzio Ferrara Ricerche (CFR) and University of Padova, Italy.**
R&D Engineer for the design and development of video streaming and download services for cellular networks (3.9, 4G and beyond), with main focus on the cross-layer optimization of video coding, network protocols and transport mechanisms.
- 2007 – 2010 **NTT DOCOMO Euro-Labs, Munich, Germany.**
Enhancement of the Japanese NTT DOCOMO and world mobile networks. Solutions developed to increase the robustness and data persistence in WiFi and Wireless Sensor Networks. Design of applications for object/person tracking and localization systems. Video and network coding techniques design to best support a wide range of real-time mobile services.
- April 2006 – **NTT DOCOMO Euro-Labs, Munich, Germany.**
January 2007 Internship on the analysis and experimental studies of network coding for wireless sensor networks
- 2001 – 2005 **Società di Mutuo Soccorso, Vicenza, Italy.**
Part-time private teacher for students from high-school and University. Subjects: Math, Computer Science, Physics, Biology, Chemistry, English, French.

Computer skills

Operating Systems	GNU/Linux, MS-Windows NT/98/2000/XP/VISTA/7/8, TinyOS
Programming Languages	C, C++, Java, NesC, Python, Perl, Bash, SQL-2, LaTeX, Pascal
Simulation Tools	MATLAB, Octave, VHDL, TOSSIM (TinyOS)
Software Packages	Microsoft Office, OpenOffice, Kdevelop
Internet/Wireless	ISO/OSI, TCP/IP, 802.x families, ZigBee, Bluetooth, IMS, SIP

Languages

Italian	Mother Language	
English	Fluent	<i>Speaking, reading, and writing.</i>
French	Good	<i>Speaking, reading, and writing.</i>
German	Scholastic	<i>Speaking, reading, and writing.</i>

Education

- 2014 **Doctoral Degree in Information and Communication Technology**, *University of Padova, Padova, Italy.*
PhD Thesis dissertation on: *Video transport optimization techniques design and evaluation for next generation cellular networks.* Supervisor: Prof. Dr. Michele Zorzi (University of Padova)
- 2007 **Master Degree in Telecommunications Engineering (Summa cum Laude)**, *University of Padova, Padova, Italy.*
Master Thesis dissertation on: *Analysis and Experimental Studies on Network Coding Techniques for Sensor Network Applications.* Supervisors: Dr. Joerg Widmer (Project Manager at NTT DOCOMO Euro-Labs) and Prof. Dr. Michele Zorzi (University of Padova)
- 2004 **Bachelor Degree in Telecommunications Engineering (Summa cum Laude)**, *University of Padova, Padova, Italy.*
Undergraduate Thesis dissertation on: *Analysis and Implementation on DSP of a Vocal Scrambler with Bank of Filters.* Supervisor: Prof. Dr. G. A. Mian (University of Padova)

Personal Consideration, Awards and Extracurricular Activities

Great communication and management skills, strong study and work ability, open to innovation, motivated, leader and team player, dynamic and flexible.

- 2010 **Seminar**, *Time management and effective work techniques*, Stoeger und Partner, Munich. Germany
- 2009 **Seminar**, *MBTI management training*, Stoeger und Partner, Munich. Germany
- 2008 **Award**, *NTT DOCOMO Euro-Labs Best R&D Engineer Award 2008*, Munich, Germany.
Author of several international journal and conference papers, EU/US/JP patents and book chapters. Participation in standardization activities (IETF). References available upon request.

I authorize the use of my personal data in accordance with Italian Privacy Protection Law (30/06/2003, n.196/03).

Sincerely,

Daniele Munaretto

