


PERSONAL INFORMATION

Riccardo Bonetto

 Via Ermanno Wolf Ferrari 10, 30174 Mestre (VE), Italy

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 Riccardo.bonetto@dei.unipd.it

Sex Male | Date of birth 22/12/1984 | Nationality Italian

WORK EXPERIENCE

01/01/2012-Present

Ph.D. Student

Department of Information Engineering (DEI), University of Padova, Italy

Under the supervision of Prof. Michele Rossi and Prof. Stefano Tomasin, I work on the optimization of smart grids. I focus on the optimization of the electrical efficiency and stability of the power grid in the presence of distributed electrical generators based on renewables. I also focus on optimal policies for dynamic energy pricing in the presence of distributed electrical generators based on renewables.

07/01/2014-25/06/2014

Visiting Ph.D. Student

Department of Automatic Control, Royal Institute of Technology (KTH), Stockholm, Sweden

During my visiting period at KTH, under the supervision of Prof. Carlo Fischione, I developed a optimal multi-objective smart grid model accounting for optimal and autonomous dynamic energy pricing (in the presence of independent photovoltaic power sources) and for the optimization of the electrical performance of the smart grid when operating in islanded mode.

17/10/2011-31/12/2011

Designer of Medium Access Control Protocols for Wireless Sensor Networks
Consorzio Ferrara delle Ricerche (CFR)

I developed a power efficient asynchronous Medium Access Control (MAC) protocol for low power wireless sensor devices.

EDUCATION AND TRAINING

October 2011

Master degree in Computer Engineering. University of Padova, Italy.

June 2008

Bachelor degree in Computer Engineering. University of Padova, Italy.

July 2003

High school diploma in "Liceo Classico". Liceo Ginnasio Raimondo Franchetti, Mestre, Italy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	A2
Spanish	B1	B1	B1	B1	A2
Swedish	A2	A2	/	/	/

Computer skills

Programming Languages:

- C
- C++
- Java
- Perl
- Python
- Assembly x86
- Bash

Extensive knowledge of the following operating systems:

- Windows XP
- Windows Vista
- Windows 7
- Linux (Slackware, Gentoo, ArchLinux, Debian, Ubuntu)
- Free BSD
- Mac OS (Tiger, Leopard, Snow Leopard)

Extensive knowledge of the Matlab software

Extensive knowledge of Latex

Extensive knowledge of the Microsoft Office Suite

Other skills

- Parachutist license, issued by Italian Civil Aviation Authority (ENAC) on 28/10/2013

Driving licence

- B

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

Publications:

- Riccardo Bonetto, Nicola Bui, Michele Rossi and Michele Zorzi, "McMAC: a power efficient, short preamble Multi-Channel Medium Access Control protocol for wireless sensor networks", *Workshop on NS3 (WNS3) 2012*, Sirmione, Italy, 23 March 2012.
- Riccardo Bonetto, Nicola Bui, Vishwas Lakkundi, Alexis Olivereau, Alexandru Serbanati and Michele Rossi, "Secure Communication for Smart IoT Objects: Protocol Stacks, Use Cases and Practical Examples", *IEEE IoT-SoS Workshop*, San Francisco, CA, US, 2012.
- Riccardo Bonetto, Michele Rossi, Stefano Tomasin and Michele Zorzi, "Networking for Power Loss Minimization in Smart Micro Grids: Design Rules and Performance Assessment", [arXiv:1311.6949]. Submitted to IEEE Transactions on Industrial Informatics.
- Riccardo Bonetto, Stefano Tomasin and Michele Rossi, "When Order Matters: Communication Scheduling for Current Injection in Micro Grids". Submitted to IEEE International Conference on Smart Grid Communications (SmartGridComm), Venice, IT, 3-6 November 2014.
- Riccardo Bonetto, Tommaso Caldognetto, Simone Buso, Michele Rossi, Stefano Tomasin and Paolo Tenti, "Lightweight Energy Management of Islanded Operated Microgrids for Prosumer Communities". Submitted to IEEE Applied Power Electronic Conference (APEC) Charlotte, NC, US, 15-19 March 2015.

Awards:

inTESI 2011 award by "Parco Scientifico e Tecnologico Galileo", for the master thesis "Progetto e Simulazione di un Protocollo di Accesso al Mezzo per Radio Multi Portante in Reti di Sensori".

In riferimento alla legge 196/2003 autorizzo espressamente l'utilizzo dei miei dati personali e professionali riportati nel mio curriculum.

Padova, 01/10/2014

Riccardo Bonetto

