

Filippo Busato

GENERAL INFO

Name: Filippo Busato
Born in: Vicenza
DOB: 20 November 1976

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EXPERIENCE

3F-engineering, Verona (IT)
Partner-founder

Oct 2007 - present

Founding partner of the associate engineering office.

Activities:

- **Private facilities** - led the Energy and Acoustic pre-design phase. Design of HVAC systems.
- **Hospitals & public facilities** - led the Building Physics Simulation, Acoustics design and the report phase.

Bettiol srl, Bozen (IT)

Nov 2014 - Dec 2014

Coordination of public tender office - consultant

Innovation manager and technical supervisor of a team of 8 engineers/architects to improve innovation proposals on public tender competitions. The main task is to develop a strategic view for the company, to investigate new fields to operate: green & energy efficiency certificates, O&M etc.

University of Padova, Vicenza (IT)

Jan 2006 - Jun 2014

Post-doc researcher - Department of Management and Engineering

Main working areas were those of energy saving and energy efficiency in buildings and the industrial sector, with special focus on the heat pumps and renewables' integration in the renovation of existing buildings. Energetic and Economical Analysis. Design of test facilities for "in situ" monitoring of HVAC equipment and building energy performances. Dynamic simulation. Design of architectural acoustics solutions for soundproofing and perceived sound quality in buildings.

Selected Activities:

- **Public funded projects** - Urban Heat Island (EU), Photovoltaic Cogeneration (EU), Energy savings in hospital (IT), PCM Thermal Energy Storage (IT), Acoustic refurbishment (IT). Energy simulation, building physics, experimental measurement campaigns.
- **Private funded projects** - Electronics cooling (IT), Multisource heat pumps (IT), Frostless heat pumps (IT), Sound emission control in biomass stoves (IT). Energy simulation, experimental measurement campaign, design and prototyping support.
- **Standardisation** - Member of the CTI (Italian HVAC Standardisation Committee). HVAC & heat pumps group, Energy labelling of buildings (EPBD & recast).
- **Teaching** - Lecturer in the University classes of "Energy Management", "Thermodynamics and heat transfer", "Applied Acoustics", in the *AiCARR Academy - HVAC school* of Milan.
- **Editorial** - over 100 papers at international and national conferences and journals (peer reviewed); over 200 citations, **H-index 10**. Author of the book "**Economical Analysis for buildings and HVAC**" (Italian), co-author of two books: on the history and assessment of the Italian Electricity system, and on the Heat Pumps' heat sources. Reviewer for several International Journals (Elsevier).

EL.TE.CO. Engineering srl, Vicenza (IT)
Professional engineer

Mar 2001 - Dec 2005

Worked with the Italian partnership in the **Euganea Energia** Project, in joint development with **Marubeni Europower Ltd**, for a 760 MW CCGT power plant in the Veneto Region. Lead the Environmental Impact Assessment Study coordination from the local partner (EL.TE.CO.) with the global Partner.

Selected Achievements:

- **JDA Joint Development Agreement** - Represented the local (Italian) partner in the negotiation phase between Italy and UK.
- **Environmental Impact Assessment Study** - Led the negotiation with Marubeni Europower Ltd representing the local (Italian) partner in the national authorisation process.

**AWARDS &
HONOURS**

Premio Sanguineti 2010

Won the editorial prize “premio Sanguineti 2010” AiCARR (Italian Association for Air Conditioning, Heating, Refrigeration)

Concorso Impianti premiati 2007

Won the prize “Impianti premiati” (Award for the innovative design of HVAC systems) in 2007.

Keynote speaker

Invited guest keynote speaker to several **National and International conferences**, on the subject of energy savings and building renovation.

**ACADEMIC
QUALIFICATIONS**

Associate Professorship

The candidate is qualified as Associate Professor according to Italian Law 240/2010, SC 09/C2 Fisica Tecnica (Applied Thermodynamics and Heat Transfer), number 2539, until 22/12/2020.

**PROFESSIONAL
QUALIFICATIONS**

Energy Manager - EGE

European qualification of Energy Manager, according to the European Standard UNI CEI 11339:2009.

Chartered Engineer

Vicenza Province Bulletin Board (Ordine degli Ingegneri della Provincia di Vicenza), number 2222. Board member 2013-2017.

Environmental Acoustics

Professional Engineer in Environmental Acoustics (Tecnico Competente in Acustica Ambientale), Veneto Region Bulletin Board (iscritto nell’elenco ufficiale della Regione Veneto), number 745.

EDUCATION

University of Padova (IT)

Jan 2003 - Dec 2005

PhD in Fisica Tecnica, marks “excellent”, March 2006.

University of Padova (IT)

Sep 1995 - Jul 2000

Master Degree in Management and Engineering, marks 93/110, March 2001.

Danmarks Tekniske Universitet (DK), Lyngby

Sep 2000 - Feb 2001

Exchange student programme Erasmus, Master Thesis work.

COMPUTER SKILLS

- Operating Systems: Mac OSX, Windows.
- General purpose software: deep knowledge of the Office Suite, including VBA coding;

- Simulation & Energy: Matlab, Simulink, TRNSYS, THERM, EES, Refprop, Coolpack, Edilclima;
- Data logging and monitoring: Labview 7, Babuc;
- Acoustics equipment: 01dB, B&K 2260 Investigator (including architectural acoustics and sound intensity).

MISCELLANEOUS

Languages: Mother Tongue **Italian**; Proficient in **English**; Elementary in **French**.
Handsome, excellent human relationship skills (youth group leader), a natural for problem solving.
Enjoy: Travelling, Yoga, Skiing, Sailing, Acoustic guitar, Sommelier, official Wine Taster.

RELEASE

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1 novembre 2015

Filippo Busato