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# Luca Tarozzi

## Mechanical engineer, Ph.D.

**About Me** I am a Master of Science and Ph.D. in Mechanical Engineering. Since 2007 I am responsible for the R&D activities at the company Bettati antincendio srl located in Reggio Emilia (Italy). My actual activities are focused in the design, testing and certification of fire suppression componts (e.g. container valve for gas suppression system, spray nozzle for watermist system) and I am also involved in audit activities related to FPC, ISO9001, TPED and PED certifications. Moreover I have experience in firefighting system design according to European and international standards and and I have been appointed as expert at UNI and CEN committee for standardization. During the doctorate I have also gained an experience in applied physics with particular reference to heat transfer and the development of experimental tests and data acquisition campaign (velocity, pressure and temperature measurements with a particular focus on infrared thermography). I am author of more than 20 publications at an international or national level. In 2006-2007 I have taught classes in the frame of courses related to thermodynamics and heat transfer at the University of Modena and Reggio Emilia and later I have been speaker to many seminars and conferences related to fire suppression systems.

## Education

**2004 - 2007, University of Modena and Reggio Emilia, IT**  
Ph.D in Mechanical engineering

**1996 - 2002, University of Modena and Reggio Emilia, IT**  
Master degree in Mechanical engineering

**2000 - 2001, University of Exeter, UK**  
Erasmus project at Engineering department

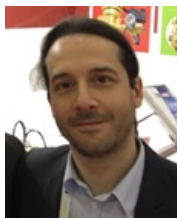
**1991 - 1996, Scientific high school "Wiligelmo", Modena, IT**  
Graduation

## Experience

**Novembre 2007 - present, R&D engineer, Bettati antincendio, Reggio Emilia, IT**

Detailed achievements:

- Learned how to manage R&D project related to the design and testing of mechanical components of fire fighting systems (e.g. nozzles, valves, fire pumps units);
- Learned how to arrange real scale fire test in order to challenge fire extinguishing systems;
- Learned how to design fire extinguishing systems and manage system installation and commissioning;
- Learned how to achieve component certification according to CE standards and international quality mark (e.g. VdS or UL approval). VdS and UL are quality mark internationally recognized for fire fighting systems and components ;
- Learned how to managed quality ISO 9001 and FPC (Factory Production Control) audits;
- Learned how to drive company interests at national (UNI) and international (CEN, ISO) standardization meeting;



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- Learned how to arrange seminars and conferences related to fire suppression systems.

**Novembre 2006 - November 2007, *Research grant*, University of Modena e Reggio Emilia, Department of Mechanical and Civil Engineering, Modena, IT**

Research activity in industrial physic group. Main research topic: Formulation and validation of a model and a numerical code for simulation of an hydrogen distribution network.

**March 2004 - March 2007, *PhD*, University of Modena e Reggio Emilia, Department of Mechanical and Civil Engineering, Modena, IT**

Detailed achievements:

- Gained an experience in applied physics with particular reference to heat transfer and the development of experimental tests and data acquisition campaign (velocity, pressure and temperature measurements with a particular focus on infrared thermography);
- More than 20 publications at an international or national level;
- Taught classes in the frame of courses related to thermodynamics and heat transfer at the University of Modena and Reggio Emilia.

**March 2003 - March 2004, *Mechanical engineer*, Tecnodinamica snc, Rubiera, Reggio Emilia, IT**

Gained experience on autocad drawings and spare parts technical documentation (main customer CNH).

## **Skills, comptences and interests**

### **Languages**

- Italian: mother tongue;
- English: advanced level in understanding, writing and speaking.

### **Programming and computer software**

- |                    |              |           |
|--------------------|--------------|-----------|
| ○ Microsoft office | ○ Solidworks | ○ Windows |
| ○ LaTeX            | ○ Matlab     | ○ Linux   |
| ○ Autocad          | ○ Octave     | ○ Phyton  |

### **Hardware**

- |                             |           |                |
|-----------------------------|-----------|----------------|
| ○ National instru-<br>ments | ○ Arduino | ○ Raspberry PI |
|-----------------------------|-----------|----------------|

### **Interpersonal skills**

Flexible, open minded, proactive, self motivated, good in collaboration and working in team.

### **Professional interests**

Mechanical engineering, Mechatronics, Applied physics, Heat transfer modeling, Fire fighting equipment and components, Fire fighting system design, Test and experiments

### **Personal interests**

Piano, Chess, Music, Art, Bicycle

## **Publications, Speaking and more details**

### **External references**

Personal website: <https://lucatarozzi.github.io>

Linkedin profile: <https://www.linkedin.com/in/luca-tarozzi-47b02446/>