

# Europass curriculum vitae



## Personal information

Surname(s) / First name(s)	Federico Bari	
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E-mail(s)	fede72bari@tiscali.it	
Nationality	Italian	
Date of birth	24/03/1972	
Gender	male	

## Desired employment

System Engineer, Project Manager

## Work experiences

Dates	2007
Occupation or position held	<a href="#">EcoThermo Project Manager (CEO and President of INGENIA srl)</a>
Main activities and responsibilities	Project Manager for the research and development of the "EcoThermo" system. The aim of this system is to allow people living in condominiums with old centralized heating systems to set the temperature independently inside their living unit and to allocate the heating costs on the base of the real usage of each family. EcoThermo system is compatible with every heating source, even area-heating generation, and with every building pipe distribution structure. EcoThermo project involves: 2 departments of Politecnico di Torino (engineering university of Turin), Energetics dep. and Automatics and Computer Science dep., the incubator of innovative enterprises of Politecnico di Torino (I3P), an engineering company (Metec&Saggese), a public houses energy manager company (EXE.GESI spa), a oil furniture company (Olicar Investimenti srl).
Name and address of employer	Start-up enterprise INGENIA srl.
Type of business or sector	System Engineering for Energy Saving and Building Automation.
Dates	2006
Occupation or position held	<a href="#">System and Subsystem Engineer for the SEEDS ULISSE Project Work (ref. also to the Educational Section of this resume)</a>
Main activities and responsibilities	The Project Work of master SEEDS 2005/06, named ULISSE (hUman Lunar Initial Settlement

<p>responsibilities</p>	<p>for Space Exploration), was intended to realize a phase A study for the human return to the moon; the base vision of the mission was to create the first permanent human outpost on the moon relying on robotic capabilities. My personal activities and experiences on this project have been:</p> <ul style="list-style-type: none"> <li>• mission vision, statement and analysis definition</li> <li>• operational analysis</li> <li>• requirements definition</li> <li>• functional analysis</li> <li>• systems architecture definitions and trade-offs</li> </ul> <p>The design activities have been focused on 6 elements of the overall mission:</p> <ul style="list-style-type: none"> <li>• HOW: Heavy Operation Worker, big lunar rover with digging and big modules handling and transportation capabilities</li> <li>• SUM: Service Utility Modules, the core system for the outpost power, communication and GNC</li> <li>• TSM: Transport Service Module from LEO to LLO</li> <li>• CDM: Cargo Descent Module, the moon lander for cargos and modules</li> <li>• PHM: Permanent Human Module, the lunar module where the human crew will live</li> <li>• THC: Temporary Human Cabin, the human module that hosts the human crew before the PHM activation</li> </ul> <p>The subsystems I have been engaged with were: HOW architecture of Structure and Mechanisms; TSM Thermal Control System; CDM Attitude and Orbital Control and Guidance and Navigation Control; PHM Environment Control and Life Support System.</p> <p>CDF: Concurrent Design Facilities experience at Alenia Space and ESTEC.</p>
<p>Name and address of employer</p>	<p>This project has been realized with the collaboration of several space industries and universities such as Alenia Space, Politecnico di Torino, Supaero, CNES, ZARM (University of Bremen), OHB, Altec, ESTEC.</p>
<p>Type of business or sector</p>	<p>System Engineering for human tended exploration space missions</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2003 – 2006</p> <p><b>Research &amp; Development hardware and software engineer</b></p> <ul style="list-style-type: none"> <li>• Design of wireless Building Automation systems oriented to the centralized accesses control, energy saving and areas state control of big buildings and Hotels (radio bridges, cellular network self-configuration and self-mapping, protocol, communication strategies, recovering strategies, dll interface)</li> <li>• Relationship with Italian and foreign suppliers and technicians</li> <li>• Relationship with foreign partners</li> </ul>
<p>Name and address of employer</p>	<p>CI.SE. Elettronica Industriale, via Ardoneghe 1, Brugine (PD) - ITALY</p>
<p>Type of business or sector</p>	<p>Electronics (development and production)</p>
<p>Dates Occupation or position held Main activities and responsibilities</p>	<p>2001 – 2006</p> <p><b>Coordinator of the first national “Spinal Cord injuries Population Census” – non-profit association “La Colonna”</b></p> <ul style="list-style-type: none"> <li>• Coordinator</li> <li>• Responsible and supervisor of the software development (client software – administrator server)</li> </ul>
<p>Name and address of employer</p>	<p>Non-profit association “La Colonna” – via Perugino 1, 30035 Mirano (VE) - ITALY</p>
<p>Type of business or sector</p>	<p>Social</p>

<b>Dates</b>	2003
<b>Occupation or position held</b>	<b>Developer of intranet solutions for business communications and management</b>
<b>Main activities and responsibilities</b>	Expand the functionalities of the program "Alfagest" that's a intranet workgroup system for shared contact management of clients and employees: <ul style="list-style-type: none"> <li>• faxes</li> <li>• management of meetings and meeting places</li> <li>• management of client correlations</li> <li>• communications employees-employees and employees-clients</li> </ul>
<b>Name and address of employer</b>	Alfaquattro, Vicenza , ITALY
<b>Type of business or sector</b>	Computer science
<b>Dates</b>	2001-2002
<b>Occupation or position held</b>	<b>Chief Project - Research &amp; Development hardware and software engineer</b>
<b>Main activities and responsibilities</b>	Design of a integrated and modular system for the detection of the presence of cars in each place of big car parks sonar based. Pre-production research and develop: <ul style="list-style-type: none"> <li>• sonar cell design</li> <li>• control unit design (analogic subsystem, digital signal elaboration subsystem, power supply subsystem, firmware, communication protocol, RS485 network)</li> <li>• master control program with flexible installation procedure</li> </ul>
<b>Name and address of employer</b>	Extel, via Croce Rossa 74, Padova, ITALY
<b>Type of business or sector</b>	Electronics
<b>Dates</b>	2000
<b>Occupation or position held</b>	<b>Software developer</b>
<b>Main activities and responsibilities</b>	Robosoft development for the price comparison of several web-shops selling same product at different prices on user demand <ul style="list-style-type: none"> <li>• pattern recognition on variable response web-pages</li> <li>• parallel processes working</li> <li>• process id dissimulation</li> </ul>
<b>Name and address of employer</b>	---
<b>Type of business or sector</b>	Computer science
<b>Dates</b>	(every election event until 1998)
<b>Occupation or position held</b>	<b>President of polling station</b>
<b>Main activities and responsibilities</b>	Officer responsible of a polling station of the Italian State
<b>Name and address of employer</b>	Mirano city municipality – Province of Venice - ITALY
<b>Type of business or sector</b>	Public Administration
<b>Dates</b>	1988 - 1991

Occupation or position held Main activities and responsibilities	<b>Member of the High School Council – Students Delegate</b> Elected by the students of the High School “Liceo Sperimentale Stefanini” their delegate inside the School Council; activities <ul style="list-style-type: none"> <li>• to represents the other student inside the council</li> <li>• to represent the student ideas and positions outside the school; keep contact with media</li> <li>• to organize the student movement of the province of Venice</li> </ul>
Name and address of employer Type of business or sector	Liceo Sperimentale “L. Stefanini” – Mestre (VE) -ITALY Politics

## Education and training

Dates	2005-2006
Title of qualification awarded	<b>SYSTEM ENGINEER</b>
Principal subjects/Occupational skills covered	<b>SEEDS, “SPACE EXPLORATION AND DEVELOPMENT SYSTEMS”</b> The main object of SEEDS is the exploration of the space and the development of the related systems. It deliberately differs from the utilization of the space, which forms the object of other existing master courses (mainly on national bases). Selecting the space exploration as its principal theme, SEEDS aims to harness the most recent development lines emerging in the space strategies of both the European Union and the USA and, according to these strategies, to prepare the specialists who will be required in the near future. <b>CLASSES:</b> <ul style="list-style-type: none"> <li>• Understanding Space: Introduction to Space Basic Concepts Space and planetary environment; Orbits and astrodynamics; Entry, descent, landing and ascent; Mission analysis; Space human engineering - Crew safety; Space utilization; Space system engineering I; Space program management; Product and quality assurance; Planetary aerothermodynamics</li> <li>• Learning about Space Systems: Fundamentals of Space Engineering Space System engineering II; Space robotics; Space propulsion; Attitude determination, guidance and control; Environmental control - Life support; Thermal control; Space telecommunication; Power generation; Space materials and structures</li> </ul>
Name and type of organisation providing education and training	COREP, Politecnico di Torino, Alenia Spazio, ASI, ESA, SUPAERO, Bremen University, OHB, ZARM, EADS
Level in national or international classification	Second Level Post-Graduation Master Degree
Dates	2005-2006 (attending at present)
Title of qualification awarded	<b>Master Nautical License</b>
Principal subjects/Occupational skills covered	Course for the Master Nautical License
Name and type of organization providing education and training	Private school
Level in national or international classification	---

Dates	2004
Title of qualification awarded	---
Principal subjects/Occupational skills covered	<a href="#">English training</a>
Name and type of organization providing education and training	American English Center, UCLA Extension, Los Angeles – Academic Intensive English Program
Level in national or international classification	TOEFL Paper Test: 504

Dates	2003
Title of qualification awarded	<a href="#">University Engineering Master Degree</a>
Principal subjects/Occupational skills covered	Electronics Engineer
Name and type of organization providing education and training	University of Ferrara - Facoltà di Ingegneria
Level in national or international classification	105/110

Dates	1991
Title of qualification awarded	<a href="#">Maturità scientifica</a>
Principal subjects/Occupational skills covered	Graduation of “maturità scientifica”
Name and type of organization providing education and training	Liceo Sperimentale “L. Stefanini”, Mastre (VE)
Level in national or international classification	54/60

## Awards

Dates	26/10/2007
Institution	<a href="#">PMI</a>
Award	2 <sup>nd</sup> prize of the PMI PIEDMONT AWAR
Project Title	EcoThermo ( <a href="http://www.ecothermo.it">www.ecothermo.it</a> )
Project Description	(read “EcoThermo Project Manager” in the work experiences section)

Dates	June 2006
Institution	<a href="#">I3P – Innovative Enterprises Incubator, University of Politecnico di Torino</a>
Award	I3P has accept the proposed innovative project to found a new company
Project Title	EcoThermo ( <a href="http://www.ecothermo.it">www.ecothermo.it</a> )

**Project Description**

The project is intended to design, product and sell and innovative system to change the computation of the energy used in each living unit of condominiums heated by a central heater to an independent one. The aim is to let every family to pay just for its real consumed heating energy and save up to 28% on the heating expenses. The system is based on a new conceptual design.

## Personal skills and competences

**Mother tongue(s)**

ITALIAN

**Other language(s)****Self-assessment****European level (\*)****ENGLISH**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	C1

(\*) *Common European Framework of Reference (CEF) level*

**Social skills and competences**

- strong ability to organize work activities and people
- strong ability to motivate people
- ability to create contact inside media (televisions, newspapers) to promote ideas of no-profit associations or social or politic parts

**Technical skills and competences****Microcontrollers and firmware programming:**

- PIC
- Atmel Mega16, Mega32
- IAR compiler
- AVR Studio
- Pony Prog

**CAD for electronics development:**

- Protel
- Orcad

**Other knowledge:** Spice, basis on PLC programming

**Computer skills and competences****Programming languages:**

- C
- C++
- Perl
- HTML
- PHP
- Visual Basic
- Visual C#
- concurrent programming under Unix
- CGI interface
- UML and SysML for system engineering projects

**Data base:**

- mySQL
- Access

	<u>Other computer science knowledge:</u> Power Point, Word, UML
Artistic skills and competences	<ul style="list-style-type: none"> <li>• photography</li> </ul>
Other skills and competences	<ul style="list-style-type: none"> <li>• sailing;</li> <li>• scuba diving;</li> <li>• movies;</li> <li>• computer science;</li> <li>• skiing;</li> <li>• river rafting;</li> <li>• martial arts;</li> <li>• reading;</li> <li>• traveling;</li> <li>• volunteerism; co-founder of the non-profit association “La Colonna” that is involved in the spinal cord injuries (<a href="http://www.lesionispinali.org">www.lesionispinali.org</a>)</li> </ul>
Driving license	B Italian driving license kind

## References

Professional references	<ul style="list-style-type: none"> <li>• prof. Sergio Beghelli – Università di Ferrara – Facoltà di Ingegneria</li> <li>• dott.sa Raffaella Marconi – Extel – via della Croce Rossa 74 – Padova – ITALY</li> <li>• Albino Valente – CI.SE. Elettronica Industriale – via Ardoneshe 1 – Brugine (PD)</li> <li>• Prof. Ernesto Vallerani – email: <a href="mailto:cris.vallerani@iol.it">cris.vallerani@iol.it</a></li> <li>• Ing. Piero Messidoro – Alenia Space – email: <a href="mailto:piero.messidoro@aleniaspazio.it">piero.messidoro@aleniaspazio.it</a></li> </ul>
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