

European curriculum vitae

Personal information

Surname / First name **MORELLI PIERO**
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Nationality Italian
Date of birth 31 December 1973
Gender Male

Actual employment / Occupational field

Researcher and Adjunct Professor in Machine Design

Alma Mater Studiorum – Università degli Studi di Bologna
Department of Industrial Engineering
Interdepartmental Center for Industrial Research – Advanced Applications in Mechanical Engineering and Materials Technology

Work experience

Dates	Since 2009
Occupation or position held	Adjunct Professor - (type of employment contract: annual assignments)
Main activities and responsibilities	Professor of Mechanical Behaviour of Materials; Machine Elements; Machine Design; Fabrication of Critical Process Equipment.
Name and address of employer	University of Bologna – Engineering faculty, v.le Risorgimento 2, 40136 Bologna (Italy)
Type of business or sector	Teaching in public University
Dates	Since 1 st of may 2007
Occupation or position held	Researcher - (full time indefinite contract of employment)
Main activities and responsibilities	Research in mechanical design and machines construction
Name and address of employer	University of Bologna – Engineering faculty, v.le Risorgimento 2, 40136 Bologna (Italy)
Type of business or sector	Research in public University
Dates	From 1 st of may 2004 to 1 st of may 2007
Occupation or position held	Researcher - (type of employment contract: 3 years definite time)
Main activities and responsibilities	Research in mechanical design and machines construction
Name and address of employer	University of Bologna – Engineering faculty, v.le Risorgimento 2, 40136 Bologna (Italy)
Type of business or sector	Research in public University
Dates	From January to April 2004
Occupation or position held	Researcher - (type of employment contract: 4 months stage)
Main activities and responsibilities	Research on graphite core (of Natural Uranium Graphite Gas nuclear power plants) dismantling techniques, waste disposal and stockage; Design of concrete containers and numerical simulation of radioactivity releases.
Name and address of employer	Agreement between SO.G.I.N (Società Gestione Impianti Nucleari), v. Torino 6, Roma (Italy) and C.E.A. (Commissariat à l'Énergie Atomique), laboratories of Cadarache, St. Paul le Durance (France).
Type of business or sector	Nuclear power plants decommissioning and nuclear waste management

Dates 2002 – 2003
Occupation or position held **Researcher** - (type of employment contract: 2 years research contract)
Main activities and responsibilities Experimental research on the fatigue strength of notched Carbon Fiber Reinforced Plastics components.
Name and address of employer University of Bologna – Engineering faculty, v.le Risorgimento 2, 40136 Bologna (Italy)
Type of business or sector Applied research in mechanical engineering

Dates 2000 – 2003
Occupation or position held **Professional Engineer** - (type of employment: practising the profession of Engineer)
Main activities and responsibilities Consultant
Name and address of employer Self profession. Member of the Roll of Engineers in Ravenna (Italy) since 1998.
Type of business or sector Reliability and safety of industrial and automotive systems. Bioremediation of polluted soils. CAD programming

Education and training

Dates 2011
Title of qualification awarded **Non Destructive Technique, method UT (ultrasound)**
Principal subjects/Occupational skills covered Pre-service and in service testing of equipment, plants and structures
Name and type of organisation providing education and training STC – Via Golfarelli Forlì
Level in national or international classification level II according to UNI EN 473, ISO 9712 - certificate nr. 11VE00886PO1

Dates 27th - 29th march 2007
Title of qualification awarded **Certificate of participation to the 6th course of “FAILURE ANALYSIS”**
Principal subjects/Occupational skills covered Failure Analysis methodologies. Fracture mechanics and fractured surface morphology. Metallography and Scansion of Electrons Microscopy of failed components.
Name and type of organisation providing education and training AIM – Italian Association of Metallurgy
Level in national or international classification Participation certificate

Dates 6th october 2006
Title of qualification awarded **Certificate of participation to the “Measuring Torque Correctly” course**
Principal subjects/Occupational skills covered The course covered the complete topic of torque. Topics ranging from phisical principles, selection and installation, calibration and dynamics through signal conditioning options.
Name and type of organisation providing education and training HBM – Hottinger Baldwin Messtechnik
Level in national or international classification Participation certificate

Dates 3th october 2006
Title of qualification awarded **Certificate of participation to the “Principle of Strain Gages” course**
Principal subjects/Occupational skills covered The course covered the essential basics of measurements using strain gages, the wiring of strain gages using the Wheatstone bridge circuit as well as the selection of strain gages, adhesives, and covering media.
Name and type of organisation providing education and training HBM – Hottinger Baldwin Messtechnik
Level in national or international classification Participation certificate

Dates	1999 – 2002
Title of qualification awarded	Dottore di Ricerca in Ingegneria Nucleare
Principal subjects/Occupational skills covered	Reliability, Availability, Maintainability and Safety of repairable, non regenerative complex systems. Monte Carlo simulation techniques. RCM (Reliability Centred Maintenance)
Name and type of organisation providing education and training	DIEM – Department of Mechanical, Aeronautic, Nuclear constructions and Metallurgy – University of Bologna – Italy
Level in national or international classification	Ph.D. in Nuclear Engineering
Dates	2000
Title of qualification awarded	RAMS professional engineer
Principal subjects/Occupational skills covered	RAMS (Reliability, Availability, Maintainability and Safety) calculation and planning techniques. FRACAS (Failure Reporting And Corrective Actions System) approach to the management of failures.
Name and type of organisation providing education and training	ISD-Italia, v. val Seriana 4 Roma - RAMS software reseller and RAMS consulting
Level in national or international classification	Expertise certificate
Dates	9 th - 13 th July 2001
Title of qualification awarded	Certificate of participation to the “Introduction to manufacturing of advanced composite structures” course
Principal subjects/Occupational skills covered	Material composition and mechanical characterisation. Design and manufacturing processes of aircraft components with composite materials, namely CFRP.
Name and type of organisation providing education and training	Flight Safety Boeing Training Int. Instructor: Timothy Harris
Level in national or international classification	Participation certificate
Dates	26 th - 29 th June 2001
Title of qualification awarded	Certificate of participation to the “Technical and Architechnical Design of Photovoltaic System” course
Principal subjects/Occupational skills covered	Principles of photovoltaic energy production systems. Solar maps and solarity. Dimensioning considerations of photovoltaic installation.
Name and type of organisation providing education and training	ISES Italia – section of the International Solar Energy Society
Level in national or international classification	Participation certificate
Dates	20 th - 22 th March 1998
Title of qualification awarded	Certificate of participation to the “Labview 5.0 basic course”
Principal subjects/Occupational skills covered	Course on graphical programming for instrumentation control, data acquisition and elaboration.
Name and type of organisation providing education and training	NI – National Instruments
Level in national or international classification	Participation certificate
Dates	1992 – 1998
Title of qualification awarded	Laurea in Ingegneria Nucleare, summa cum laude
Principal subjects/Occupational skills covered	Nuclear physics, fission reactors and nuclear facilities design. Nuclear fuel cycle.

Name and type of organisation providing education and training

University of Bologna – Italy

Level in national or international classification

Master degree in Nuclear Engineering, with full honours

Dates

1987 – 1992

Title of qualification awarded

Diploma di maturità scientifica, a pieni voti

Principal subjects/Occupational skills covered

Basic secondary school education

Name and type of organisation providing education and training

Liceo Scientifico G.R.C. Lugo di Romagna

Level in national or international classification

General Certificate of Education in Science, with full remarks

Personal skills and competences

Mother tongue(s)

Italian

Other language(s)

Self-assessment

European level ()*

English

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1
C1	C1	B2	B2	B2

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

Social skills and competences

Art of communication, resulting from years of teaching and presentation of scientific papers at both national and international conferences.

Organisational skills and competences

Organisational skills were gained during the years of professional activity and during the last years of applied research, giving directions and help to Ph.D. students.

Technical skills and competences

Competences in experimental mechanical measures of stress and strain were developed at the DIN labs, such as in the field of strain gauges.

Computer skills and competences

OS: Mac, Windows, Linux, DOS; SW: CAD, CAE, FEM, RAMS, Code Aster, LaTeX, MatLab, SciLab, LabView, Mathematica, Wxmaxima, MS Office package ... programming languages: C Ansi, Fortran 90, Pascal, VBA.

Driving licence(s)

Driving license (moto-vehicles and auto-vehicles not exceeding 9 seats or 3,5 tons).
Private Pilot license for single engine, propeller airplanes from 1990 to 2008

Additional information

Consultant activities involving RAMS, measurement and experimentation, design, stress analysis and teaching, performed in collaboration with Bassani, Cabine Europa Rebo, F.Ili Menabo, HERAmbiente, Kemet, Leoni, Magneti Marelli, Microsystem, Next Hydraulics, Ocean, SIBO boccole, SIMOL, Tecno Brevetti, Tetra Pak, Tubificio Montanari Massimo.

Bologna, 18th April 2024



(digitally signed)