

Curriculum Vitae

Massimo BERTOLINI

PERSONAL DATA



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ACADEMIC POSITION

from 06/06/2024 to date	Title: Full Professor Scientific Disciplinary Area: IIND-05/A - MECHANICAL INDUSTRIAL SYSTEMS University Location: University of Modena and Reggio Emilia Referring Structure: 'Enzo Ferrari' Department of Engineering
from 01/12/2019 to 05/06/2024	Title: Full Professor Scientific Disciplinary Sector: ING-IND/17 - MECHANICAL INDUSTRIAL SYSTEMS University Location: University of Modena and Reggio Emilia Referring Structure: 'Enzo Ferrari' Department of Engineering
from 01.10.2014 to 30.11.2019	Title: Associate Professor Scientific Sector Disciplinary Area: ING-IND/17 - MECHANICAL INDUSTRIAL SYSTEMS University Location: University of Parma Department of Engineering and Architecture
since 16.09.2002 as at 30.09.2014	Title: Researcher Scientific Sector Disciplinary Area: ING-IND/17 - MECHANICAL INDUSTRIAL SYSTEMS University Location: University of Parma Department of Engineering and Architecture

EDUCATION

2004	PhD University: University of Parma - Department of Industrial Engineering Qualification: PhD in 'Production systems and industrial plants' European Qualifications Framework (EQF) : 8
1999	Degree in Mechanical Engineering University: University of Parma - Faculty of Engineering Qualification: Master's Degree in Mechanical Engineering Final grade: 110/110 (Diploma no. 1061 of 14.01.2000) European Qualifications Framework (EQF) : 7
1993	Secondary School Diploma Institute: State Industrial Technical Institute 'Leopoldo Nobili' of Reggio Emilia Qualification: Chief Industrial Technician European Qualifications Framework (EQF) : 5

INSTITUTIONAL APPOINTMENTS

From 2022 to date	Member of the Steering Committee of the Bi-REX Competence Centre (https://bi-rex.it/) Appointed to the Steering Committee of the BI-REX Consortium representing the University of Modena and Reggio Emilia for the three-year period 2022-2024. BI-REX is one of the 8 national Competence Centres set up by the Ministry of Economic Development as part of the government's Industry 4.0 plan, with a specialised focus on Big Data.
From 2020 to date	Contact person for the Timetable Commission of the 'Enzo Ferrari' Engineering Department of the University of Modena and Reggio Emilia
From 2021 to 2023	Scientific Coordinator UniMORE - EIT Manufacturing project EIT Manufacturing (https://eitmanufacturing.eu/) is a body that is part of the European Institute of Innovation and Technology (EIT), an independent EU body established to steer innovation in the EU. EIT Manufacturing develops education, innovation and business creation projects on manufacturing-related topics.
From 2018 to 2019	Member of the working group 'Management Control and University Information Systems' . By Rectoral Decree 828/2018 prot. 59381, the "Management Control and Information Systems" working group of the University of Parma was established with the task of mapping the processes pertaining to the data processed in a management control context, identifying relevant critical issues, formulating proposals for re-engineering or procedural improvement and, where necessary, proposing remedial actions in the IT technical field.
From 2018 to 2019	Representative of the University of Parma in the Board of Directors of the spin-off company "FSTT - Food Safety and Traceability Transport Srl" . FSTT is a spin-off of the University of Parma that deals with the production and marketing of highly innovative products and services resulting from research in the field of enabling technologies, innovative services and sustainable mobility, for logistics and production companies in the food sector.
Since 2017 to 2019	President of the Master's Degree Course in Management Engineering of the Department of Engineering and Architecture of the University of Parma Master's Degree Course in Management Engineering at the University of Parma - duration: 2 years; class: LM-31 - Class of Master's Degrees in Management Engineering http://cdlm-ig.unipr.it/
Since 2017 to 2019	Member of the Quality Presidium of the Department of Engineering and Architecture of the University of Parma. The Departmental Quality Presidium (PQD) is an operational and liaison body between the Department and the University Quality Presidium
Since 2017 to 2019	Member of the Teaching Commission of the Department of Engineering and Architecture The Teaching Commission has the task of coordinating the teaching activities of the Study Courses incardinated in the Department in order to achieve the quality objectives of the individual Study Courses and of the Department more generally.
Since 2015 to 2019	Representative of the University of Parma in the National Association of Intelligent Factory Clusters The National Technology Cluster 'Intelligent Factory' is a recognised association with the aim of implementing a strategy based on research and innovation for the competitiveness of Italian manufacturing.
Since 2016 to 2017	Delegate of the Rector of the University of Parma for 'Lean and Process Innovation' . The activities carried out in the two-year period focused on: (i) mapping the technical/administrative processes inherent to the management of university staff missions with the aim of streamlining and digitising them and (ii) drafting the central administration's computerised protocol management manual (still adopted by the University of Parma).
Since 2013 to 2014	Representative of Associate Professors in the Scientific Committee of Area 109 - Industrial and Information Engineering - University of Parma.
Since 2004 to 2013	Researchers' representative in the Scientific Committee of Area 09 - Industrial and Information Engineering - University of Parma.
Since 2010 to 2013	Chairman of the Technical-Administrative Commission for the Life Cycle Management of the Parma Integrated Environmental Pole for Waste Management (PAIP) The Integrated Environmental Pole of Parma is the set of plants designed for the disposal of urban and special non-hazardous waste in the province of Parma, functional to the management of an integrated system that allows the recovery of energy from non-recoverable materials and the recovery of materials, minimising the use of landfills, as required by regulations. The PAI is located within the macro-area indicated by the PPGR called Spip Sud and included between via Forlanini to the north, the TAV to the south, the Naviglio Canal to the west and via Ugozzolo to the east. It covers an area of approximately 58 hectares, 50 of which include approximately 15,000 newly planted trees and shrubs. This large green area has above all an environmental mitigation function, both with regard to greenhouse gases and dust also from vehicle traffic. The trees act as a 'carbon sink' of carbon dioxide, fixing and storing it in the wood. On

the other hand, the leaves, which are equipped with hairs and covered with thin layers of waxes and resins, have the function of intercepting dust.

The cluster consists of the following plants: (i) cogeneration waste-to-energy plant in Parma; (ii) mechanical waste treatment plant

TEACHING - UNIVERSITY

From [LESSON DESIGN AND MANAGEMENT OF INDUSTRIAL PLANTS](#)
AA2020/2021 Bachelor's Degree in Mechanical Engineering
to date Enzo Ferrari' Department of Engineering - University of Modena and Reggio Emilia

From [Teaching of FUNDAMENTATION OF PLANT AND LOGISTICS](#)
AA2019/2020 Bachelor's Degree in Mechanical Engineering
to AA 2022/2023 Enzo Ferrari' Department of Engineering - University of Modena and Reggio Emilia

From [Teaching LEAN PRODUCTION](#)
AA2013/2014 Bachelor of Science in Management Engineering - University of Parma
to AA2019/2020

From [Teaching LEAN PRODUCTION](#)
AA2018/2019 Bachelor of Science in Management Engineering - University of the Republic of San Marino
to AA2019/2020

From [Teaching of PRODUCTION MANAGEMENT](#)
AA2002/2003 Bachelor of Science in Management Engineering - University of Parma
to AA2019/2020

From [Teaching of PRODUCTION MANAGEMENT](#)
AA2013/2014 Bachelor of Science in Management Engineering - University of San Marino
to AA2019/2020

AA2017/2018 [PROJECT MANAGEMENT teaching](#)
Bachelor of Science in Management Engineering - University of the Republic of San Marino

Since [PROJECT MANAGEMENT teaching](#)
AA2005/2006 Bachelor of Science in Management Engineering - University of Parma
to AA2011/2012

Since [Teaching LOGISTIC AND PRODUCTION SYSTEMS SIMULATION](#)
AA2005/2006 Bachelor of Science in Management Engineering - University of Parma
to AA2008/2009

TEACHING - DOCTORATES

From [Teaching BASIC PRINCIPLES OF PROJECT MANAGEMENT](#)
AA2019/2020 Enzo Ferrari' Doctoral School in Industrial and Territorial Engineering - University of Modena and Reggio Emilia
to date

DIDACTICS - UNIVERSITY MASTERS/COACHING

2024 Company: [ELETTROMECCANICA TIRONI Srl - Modena \(MO\)](#)
Scope of training:

- ✓ [principles of agile design](#)
 - ✓ [supply chain management](#)
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2024 Company: [Zini and Zambelli Costruzioni Srl - Reggio Emilia \(RE\)](#)
Scope of training: [project management](#)

2023 Company: [Fipal Srl - Felegara \(PR\)](#)

2024 Scope of training: [big data and analytics for improved decision-making processes](#)

2023 Company: [Donelli Vini SpA - Gattatico \(RE\)](#)

2024 Area of training: [purchasing office management and production planning](#)

2022 Master Level 1 '[LEAN 4 SMART FACTORY](#)'.

2023 Modules:

- ✓ [Horizontal / Vertical Integration in Smart Industries](#)
 - ✓ [Production planning and scheduling systems in lean contexts](#)
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2022	Company: Lincotek Equipment SpA - Pontescodogna (PR) - Italy
2023	Area of training: Innovation and digitisation for the development of the medical area in the post Covid era
2022	Company: OMP Srl - San Martino in Rio (RE) - Italy
	Scope of training: lean production - 5S - Autonomous maintenance - Workspace management and organisation
2022	Company: Donelli Vini SpA - Gattatico (RE)
	Area of training: warehouse management and internal logistics
2021	Company: COMEC Srl - Canossa (RE)
	Area of training: lean production: efficiency and competitiveness of production processes
2020	Company: BELLELI ENERGY CPE - Mantua (MN)
2021	Training Project: Critical Process Equipment Expert
	Scope of training: Project Management, MRP I Systems, Inventory Management and Internal Logistics
2020	Company: Traimec Srl - Formigine (MO) - Italy
	Area of training: proposal management and customer order management
2018	Company: CDM Tecnoconsulting SpA - Sorbolo (PR)
	Field of training: Project Management
2017	Company: CDM Tecnoconsulting SpA - Sorbolo (PR)
	Field of training: Project Management

MANAGEMENT OF HIGHLY QUALIFIED INTERNATIONAL RESEARCH ORGANISATIONS OR INSTITUTES

From 2018 to 2019	President of the SMILE-DIH (Smart Manufacturing Innovation for Lean Excellence centre) Association. SMILE-DIH (http://smile.italian-dih.eu/) is an association between the University of Parma and Unione Parmense degli Industriali that aims to promote research and technology transfer activities specifically addressed to small and medium-sized enterprises on industry4.0 issues. SMILE-DIH is the coordinator of the Italian network of European Digital Innovation Hubs and was set up as a continuation of the EU project SMILE-DIH.
Since 2016 to 2019	Director of the Interdepartmental Centre 'Future Technology Lab'. The Future Technology Lab is a Laboratory of the Emilia-Romagna regional network of Technopoles for Innovation that deals with research and technology transfer issues in the field of Intelligent Factory technologies. In particular, FT Lab specialises in research and technology transfer projects in the field of automatic identification with RFID technologies. http://www.centritecnopolo.unipr.it/futuretechnologylab/ .

PARTICIPATION IN THE TEACHING BOARD OR THE AWARDING OF TEACHING ASSIGNMENTS, WITHIN THE FRAMEWORK OF RESEARCH DOCTORATES ACCREDITED BY THE MINISTRY

AA: 2023/2024 Cycle: 39	Participation in the doctoral faculty [DOT1317193]. Proposing university: University of MODENA and REGGIO EMILIA Title: 'MECHANICAL AND VEHICLE ENGINEERING'
AA: 2022/2023 Cycle: 38	Participation in the doctoral faculty [DOT1317193]. Proposing university: University of MODENA and REGGIO EMILIA Title: 'INDUSTRIAL AND TERRITORY ENGINEERING'
AA: 2021/2022 Cycle: 37	Participation in the doctoral faculty [DOT1317193]. Proposing university: University of MODENA and REGGIO EMILIA Title: 'INDUSTRIAL AND TERRITORY ENGINEERING'
AA: 2019/2020 Cycle: 35	Participation in the doctoral faculty [DOT13SJV60]. Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2018/2019 Cycle: 34	Participation in the doctoral faculty [DOT13SJV60]. Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
PhD 33rd cycle	Supervisor: ESPOSITO Giovanni Title " <i>Development of Industry 4.0 systems in SMEs environments</i> ".

	NERONI Mattia Title " <i>Improvement of logistics automation: a focus on unconventional solutions</i> ".
AA: 2017/2018 Cycle: 33	Participation in the doctoral faculty [DOT13SJY60]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
PhD 32nd cycle	Supervisor: MEZZOGORI Davide Title ' <i>Industrial applications of machine learning and deep learning algorithms</i> '.
AA: 2016/2017 Cycle: 32	Participation in the doctoral faculty [DOT13SJY60]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2015/2016 Cycle: 31	Participation in the doctoral faculty [DOT13SJY60]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2013/2014 Cycle: 29	Participation in the doctoral faculty [DOT13SJY60]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2012/2013 Cycle: 28	Participation in the doctoral faculty [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2011/2012 Cycle: 27	Participation in the doctoral faculty [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2010/2011 Cycle: 26	Participation in the doctoral faculty [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
PhD 25th Cycle	Supervisor: ROMAGNOLI Giovanni Title ' <i>Hybrid production planning and control systems: towards an application of lean manufacturing to the Make-To-Order sector</i> ' "
AA: 2009/2010 Cycle: 25 Duration: 3 years	Participation in the Teachers' Board [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2008/2009 Cycle: 24 Duration: 3 years	College attendance 2008 [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2007/2008 Cycle: 23 Duration: 3 years	College Participation 2007 [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2006/2007 Cycle: 22 Duration: 3 years	College Participation 2006 [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'
AA: 2006/2007 Cycle: XXII Duration: 3 years	College Participation 2006 [DOT0321329]: Proposing Athenaeum University of PARMA Title: 'INDUSTRIAL ENGINEERING'

NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

From 01.01.2022 to 31.12.2022 (duration 12 months)	<u>GREEN ADVANCED PLANNING & SCHEDULING</u> Call: EIT MANUFACTURING CALL FOR PROPOSALS 2022 Abstract: Green APS aims at bringing to the market the integration of Advanced Planning and Scheduling (APS) solutions with Energy Management Systems, thus reducing energy consumption and carbon footprint of manufacturing companies. Green APS addresses energy and production efficiency in industry by adding energy sources and consumption variables, thus minimising energy consumption, and maximising the use of renewable
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energy sources. The consortium has technology providers of scheduling engine, ERP, and AI solutions and two use cases in the metal parts industry. The commercialisation of the solution is assured by the two technology companies in the consortium.

Consortium:

- ✓ INESC TEC - Institute for Systems and Computer Engineering, Technology and Science (Portugal)
- ✓ Voestalpine High Performance Metals (Austria)
- ✓ University of Modena and Reggio Emilia (Italy)
- ✓ RP Santini Srl (Italy)
- ✓ Softi9 (Portugal)
- ✓ Tvarit GmbH (Germany)

Role:

- ✓ Contact person University of Modena and Reggio Emilia
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From 01.10.2021
to 30.09.2022
(duration 12
months)

SIMULATE LOGISTICS, OPERATION AND SUPPLY CHAIN LAB (SIMULOPLS LAB)

Call: Open Digital Lab for your (DIGILAB4U) - cascade funding

Abstract: The aim of the project is the creation and networking of a laboratory for undergraduate students and doctoral schools in which to teach methodologies, techniques, tools and models for the creation of stochastic discrete-event simulations for the optimisation of operations, logistics and supply chain management processes.

Consortium:

- ✓ HAW Landshut (Germany)
- ✓ HDM Stuttgart (Germany)
- ✓ Hochschule für Technik Stuttgart (Germany)
- ✓ HS Furtwangen (Germany)
- ✓ KTH Stockholm (Sweden)
- ✓ RWTH Aachen University (Germany)
- ✓ Tecnológico Monterey (Mexico)
- ✓ TU Dortmund (Germany)
- ✓ Universität Bremen (Germany)
- ✓ Universität Koblenz-Landau (Germany)
- ✓ University of Modena and Reggio Emilia (Italy)
- ✓ University of Parma (Italy)
- ✓ UOC (Universitat Oberta de Catalunya) (Spain)

Role: Contact person and activity coordinator for the University of Modena and Reggio Emilia

As of 01.10.2018
to 30.11.2019

OPEN DIGITAL LAB 4YOU (FKZ 16DHB2116)

Call: German Federal Ministry of Education and Research

Abstract: Within the framework of funding measure Förderung von Forschung zur digitalen Hochschulausbildung Innovationspotenziale Digitaler Hochschulbildung of the Federal Ministry of Education and Research. The aim of the Digilab4U project is to combine digitized laboratory-based research and teaching with methods of engineering learning and serious gaming using Learning Analytics (LA), Mixed/Augmented Reality (AR) and Open Badges to create a unique holistic approach within a hybrid learning and working environment.

Consortium:

- ✓ Hochschule für Technik Stuttgart
- ✓ RWTH Aachen University
- ✓ Universität Koblenz-Landau
- ✓ University of Parma
- ✓ Universität Bremen

Role: Contact person and activity coordinator for the University of Parma

From 01.10.2016
as at 30.09.2017
(duration 12
months)

SMILE (SMART MANUFACTURING LEAN INNOVATION EXCELLENCE CENTRE)

Abstract: to prepare feasibility studies to establish Digital Innovation Hubs (DIH) in Parma.

Call: Horizon2020 Cascade Funding (Fortissimo project)

Consortium:

- ✓ University of Parma (Italy)
- ✓ Unione Parmense degli Industriali (Italy)
- ✓ Casappa SpA (Italy)
- ✓ CDM Technoconsulting SpA (Italy)

Role: Responsible for the entire project

From 01.10.2013
as at 30.04.2017
(duration 43
months)

SENSOR-ENABLED REAL-WORLD AWARENESS FOR MANAGEMENT INFORMATION SYSTEMS

Abstract: The objective of the SERAMIS project is to push the boundaries of current RFID implementations, thus turning them into powerful tools for intelligent information management. For this purpose, SERAMIS develops models, procedures, and tools for the handling of massive RFID data sets. The project aims at covering the entire causal chain from the initial investment in an RFID data collection infrastructure to the impact of data

processing on firm performance and customer satisfaction. Not least, SERAMIS puts special emphasis on the analysis of privacy issues arising from RFID data. The project results are put into practice by two leading European fashion retailers and innovators in RFID usage. Our ultimate aim is to create benefits for individual business processes, strategic and industry-level impacts as well as guidelines for handling the trade-off between the interests of technology users and the privacy rights of their customers. The project outcomes are developed for the largest reuse possible and address the needs of players in the retail industry and beyond.

Call: FP7 - Grant agreement no. 612052 ICT Call 10 - FP7-ICT-2013-10

Consortium:

- ✓ Adler Mode Market (Germany)
- ✓ Athens University of Economics and Business (Greece)
- ✓ Diffusione Tessile (Italy)
- ✓ University of Parma (Italy)
- ✓ University of Würzburg (Germany)
- ✓ Vienna University of Economics and Business (Wienn)

Role:

- ✓ Scientific responsibility for the project
 - ✓ Contact person University of Parma
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2013-2015
(duration 36
months)

IBMM - InBound Material Management

Integrated supply chain management and development of flexible internal processes for the production of domestic range hoods

Project: implementation of lean principles in design, purchasing and production areas

Call: Call 1.1.04.02 of POR MARCHE FESR 2007-2013

Partner companies:

- ✓ Marche Polytechnic University
- ✓ Faber SpA (Fabriano - AN)

Role: Contact person and activity coordinator for the University of Parma

2013-2015
(duration 36
months)
ISPESL - Call for
Collaborative
Research

SISOM (INTELLIGENT SYSTEMS FOR THE ASSISTANCE AND SUPPORT OF OPERATORS INTERFACING WITH MACHINERY, MACHINE ASSEMBLIES AND WORK EQUIPMENT IN INDUSTRIAL PROCESSES)

Project: Design and development of intelligent systems based on augmented reality to support the operator in production and/or maintenance activities

Call: ISPESL - Call for Collaborative Research - Research Activities Plan 2013-2015 AREA WORKPLACE AND ENVIRONMENTAL SAFETY Thematic Identifier Number 16

Role: Participant University of Parma

2011-2013
(duration 36
months)
ISPESL - B-
2/DTS/09 Pr. no.
08 L. no. 38 Id.
Expenditure
16082

DEVELOPMENT OF A PREDICTIVE MODEL, BASED ON THE BBS (BASED BEHAVIOUR SAFETY) METHODOLOGY AND SOFT-COMPUTING TECHNIQUES, FOR THE PREVENTIVE ANALYSIS OF BEHAVIOUR POTENTIALLY LEADING TO ACCIDENTS IN THE WORKPLACE

Project: studying the impact of BBS methodology in risk reduction in manufacturing enterprises

Call: ISPESL - B-2/DTS/09 Pr. no. 08 L. no. 38 Id. Expenditure 16082

Role: Participant University of Parma

2010-2011
(duration 20
months)
Notice POR CRO
Liguria Region
2007/2013 Line
1.2.2

ADVANCED TECHNOLOGIES FOR REMOTE MANAGEMENT OF INDUSTRIAL MAINTENANCE

Project: Advanced technologies for remote management of industrial maintenance with radio frequency identification devices

Call: Liguria Region, Call POR CRO Liguria Region 2007/2013 Line 1.2.2

Consortium:

- ✓ TAM Software Srl
- ✓ University of Pisa
- ✓ University of Parma

Role: Contact person and activity coordinator for the University of Parma

2008-2009
(duration 24
months)
MURST -
Scientific
research
programmes of
major national
interest, Year
2007 - prot.
2007BETYY4

OPERATIONAL RISK MANAGEMENT AND RESILIENCE OF INDUSTRIAL AND SERVICE SYSTEMS (RISKOPRE)

Project: development of models for forecasting and managing business interruption risk in operations & supply chain management

Call: MURST - Scientific research programmes of major national interest, Year 2007 - prot. 2007BETYY4

Role: participant University of Parma

2005-2006 (duration 24 months) Regional Programme for Industrial Research, Innovation and Technology Transfer (PRRIITT) - Emilia-Romagna Region	<p><u>RESEARCH AND DEVELOPMENT FOR THE REALISATION OF A LOADING SYSTEM SUITABLE FOR PRESS DEPOSITION OF DECORATED DOUGH, ON THE SURFACE OR IN THE MASS, BY MEANS OF DRY GLAZES AND GRANULES, WITH AN INNOVATIVE DIGITAL AUTOMATIC SYSTEM</u></p> <p>Project: Design of a plant for the decoration of floor ceramics</p> <p>Call: Regional Programme for Industrial Research, Innovation and Technology Transfer (PRRIITT) - Emilia-Romagna Region</p> <p>Consortium:</p> <ul style="list-style-type: none"> ✓ Gambarelli Impianti Srl ✓ University of Parma <p>Role: Contact person and activity coordinator for the University of Parma</p>
2002-2003 (duration 24 months) MURST - Scientific research programmes of major national interest, Year 2001 - prot. 2001095542_002	<p><u>DEVELOPMENT AND VALIDATION OF A METHODOLOGY TO CONTROL THE IMPACT OF THE COGNITIVE ABILITY OF THE HUMAN OPERATOR ON THE PERFORMANCE OF PRODUCTION SYSTEMS</u></p> <p>Project: development of models for predicting human operator behaviour in production contexts to reduce the risk of accidents in the workplace</p> <p>Call: MURST - Scientific research programmes of major national interest, Year 2001 - prot. 2001095542_002</p> <p>Role: participant University of Parma</p>

SCIENTIFIC RESEARCH ENTRUSTED BY PUBLIC / PRIVATE INSTITUTIONS

2014 (10 months)	<p><u>CARIPARMA FOUNDATION (PARMA)</u></p> <p>Title: Project 811 - Phase 2</p> <p>Description: Coordination of voluntary associations operating in the municipality of Parma to plan and provide a transport service for the disabled and social accompaniment within the municipality of Parma</p> <p>Head office: Parma (PR)</p> <p>Field of activity: voluntary associations for the transport of people in need</p> <p>Role: Project co-ordination and execution</p>
2012 (4 months)	<p><u>ASCAA SPA (PARMA)</u></p> <p>Description: technical/economic feasibility study for the construction of a civil sludge drying plant at the Fidenza (PR) purification plant</p> <p>Head office: Fidenza (PR)</p> <p>Field of activity: water manager (networks, plants, large derivation capture, adduction and distribution of water for civil uses, sewerage and wastewater treatment) basso ovest basin of the province of Parma</p> <p>Role: Project co-ordination and execution</p>
2008 (24 months)	<p><u>CARIPARMA FOUNDATION (PARMA)</u></p> <p>Title: Project 811.</p> <p>Description: technical/economic feasibility study for the establishment of a provincial public assistance coordination centre</p> <p>Associations involved: all Public Assistance Associations in the Province of Parma (about 20 units)</p> <p>Role: responsible for the entire project</p>
2009 (12 months)	<p><u>CONSORTIUM MOUNTAIN PLAIN AND ENVIRONMENT (PARMA)</u></p> <p>Description: design of project management criteria and technical-economic feasibility studies for the realisation of roof-mounted photovoltaic power plants</p> <p>Headquarters: Parma</p> <p>Sector: construction and operation of plants for the production of energy from renewable sources</p> <p>Role: Project co-ordination and execution</p>
2008 (12 months)	<p><u>ASSOCIATION OF SMALL AND MEDIUM-SIZED INDUSTRIES (API) (REGGIO EMILIA)</u></p> <p>Description: identification of a pool of 'energy-hungry' member companies; identification of technical/operational energy-saving solutions for the selected companies; implementation of the identified solutions</p> <p>Headquarters: Reggio Emilia</p> <p>Sector: Association of categories</p> <p>Role: Project co-ordination and execution</p>
2008	<p><u>CONSORTIUM MOUNTAIN PLAIN AND ENVIRONMENT (PARMA)</u></p>

(12 months)	<p>Description: technical/economic design, including identification of optimal location and economic/financial plan for the construction of a combustion plant fuelled by vegetable biomass harvested and/or produced in the Province of Parma</p> <p>Headquarters: Parma</p> <p>Business sector: Construction and operation of plants for the production of energy from renewable sources</p> <p>Role: Project co-ordination and execution</p>
2006 (12 months)	<p>MUNICIPALITY S. ILARIO D'ENZA (RE) / ENIA SPA (REGGIO EMILIA)</p> <p>Description: Optimisation of the integrated management system of solid urban waste of domestic origin, for an eco-sustainable territorial development, of the territory of the Municipality of S. Ilario d'Enza. Benchmarking analysis on waste production and service management costs, compared to other Italian municipalities</p> <p>Head office: Municipality of S. Ilario d'Enza (RE) - Reggio Emilia</p> <p>Business sector: Public Administration / Waste Management</p> <p>Role: Project participation and execution</p>
2004 (12 months)	<p>TELEMATICS LABORATORY FOR THE TERRITORY (PARMA)</p> <p>Description: technical/regulatory update of the Laboratory's web portal dealing with distance learning on workplace safety issues</p> <p>Headquarters: Parma</p> <p>Field of activity: develop and manage a multi-channel Territorial Telematic Network promoted and financed by the member Local Authorities.</p> <p>Role: Project participation and execution</p>

THIRD MISSION PROJECTS

2023 (8 months)	<p>Company: PBL Srl</p> <p>Project: <i>Analysis and mapping of production processes</i></p> <p>Company headquarters: Fornovo (PR)</p> <p>Business sector: manufacture of special machines and plants for the pharmaceutical industry</p> <p>Role: Project co-ordination and execution</p>
2023 (3 months)	<p>Company: Kheperer Srl</p> <p>Project: <i>Analysis and definition of areas of intervention of artificial intelligence-based solutions for the optimisation of logistics processes</i></p> <p>Company headquarters: Bibbiano (RE)</p> <p>Business sector: Development of AI solutions for logistics and production process optimisation</p> <p>Role: Project co-ordination and execution</p>
2022 (24 months)	<p>Company: E80 GROUP SpA</p> <p>Project: <i>Order case picking in a goods to pickers systems optimisation (TRAY project)</i></p> <p>Company headquarters: Viano (RE)</p> <p>Business sector: realisation of automated logistics solutions (e.g. automated warehouses, LGV systems, secondary packaging and palletising lines) for consumer goods companies in the beverage, food, tissue and other sectors.</p> <p>Role: Project co-ordination and execution</p>
2021 (6 months)	<p>Company: WAM GROUP SpA</p> <p>Project: <i>Analysis and rationalisation of a technical/commercial configurator for screw conveyors</i></p> <p>Company headquarters: Cavezzo (MO)</p> <p>Business sector: production of material handling systems for incoherent materials</p> <p>Role: Project co-ordination and execution</p>
2021 (12 months)	<p>Company: LODI SpA</p> <p>Project: <i>Plant layout design for production plant</i></p> <p>Company headquarters: Fabbrico (RE)</p> <p>Business sector: Production of mechanical components for agricultural machinery.</p> <p>Role: Project co-ordination and execution</p>
2021 (9 months)	<p>Company: ELETTRIC80 SpA</p> <p>Project: <i>Picking systems optimisation (READY project)</i></p> <p>Company headquarters: Viano (RE)</p> <p>Business sector: realisation of automated logistics solutions (e.g. automated warehouses, LGV systems, secondary packaging and palletising lines) for consumer goods companies in the beverage, food, tissue and other sectors.</p> <p>Role: Project co-ordination and execution</p>
2021 (8 months)	<p>Company: AIA - Agricola Italiana Alimentare SpA</p> <p>Project: <i>Third party logistic service provider (3PL) selection for food cold chain management</i></p> <p>Company headquarters: San Martino Buon Albergo (VR)</p>

	<p>Business sector: AIA is part of the Veronesi Group, Italy's fifth largest agri-food company in terms of turnover, and a national leader in the production of animal feed with the Veronesi brand, first in the poultry industry in Europe with the AIA brand, and one of the leading companies in the Italian charcuterie industry with the Negroni and Montorsi brands.</p> <p>Role: Project co-ordination and execution</p>
2020 (24 months)	<p>Company: ELETTRIC80 SpA</p> <p>Project: <i>Design and development of a support system for purchasing activities with reference to AS/RS plants</i></p> <p>Company headquarters: Viano (RE)</p> <p>Business sector: realisation of automated logistics solutions (e.g. automated warehouses, LGV systems, secondary packaging and palletising lines) for consumer goods companies in the beverage, food, tissue and other sectors.</p> <p>Role: Project co-ordination and execution</p>
2020 (6 months)	<p>Company: ZANOTTI SpA</p> <p>Project: <i>Development of an integrated hardware and software system for cold chain management</i></p> <p>Company headquarters: Sorbolo (MN)</p> <p>Business sector: construction of industrial refrigeration plants, both fixed and transported units.</p> <p>Role: Project co-ordination and execution</p>
2020 (5 months)	<p>Company: PROFILINOX SpA</p> <p>Project: <i>Analysis and reorganisation of internal logistics processes</i></p> <p>Company headquarters: Parma (PR)</p> <p>Business sector: marketing of steel products.</p> <p>Role: Project co-ordination and execution</p>
2018 (12 months)	<p>Company: MATTER Srl</p> <p>Project: <i>Development of optimisation algorithms and simulation models for the design of AS/RS systems made by Matter</i></p> <p>Company headquarters: Bibbiano (RE) - Carate Brianza (MB)</p> <p>Business sector: Production of automatic warehouses for axial and planar products (i.e. bars, tubes and sheets) for steel and carpentry companies.</p> <p>Role: Project co-ordination and execution</p>
2018 (4 months)	<p>Company: WITTUR SpA</p> <p>Project: Digital innovation of production and logistics processes at Wittur SpA.</p> <p>Company headquarters: Parma</p> <p>Business sector: production and marketing of lifts, elevators and lifting cabins.</p> <p>Role: Project co-ordination and execution</p>
2018 (6 months)	<p>Company: GROUPFER SpA</p> <p>Project: Analysis and redesign of operations processes. The project involves accompanying the group companies (Unifer SpA, Bronifer SpA and Stilfer Srl) in the revision of physical and IT processes and the replacement of the company/group ERP.</p> <p>Company headquarters: Piacenza, Parma, Pavia</p> <p>Business sector: production and marketing of steel products</p> <p>Role: Project co-ordination and execution</p>
2017 (8 months)	<p>Company: EXTREMA Srl</p> <p>Project: process analysis and optimisation (from insertion of the commercial proposal to realisation of the finished product); technical/commercial configurator development; manufacturing cell design and development according to lean manufacturing principles</p> <p>Company headquarters: Bagnolo San Vito (MN)</p> <p>Business sector: manufacture and marketing of stairlifts and lifting platforms for persons with reduced mobility.</p> <p>Role: Project co-ordination and execution</p>
2017 (12 months)	<p>Company: MATTER Srl</p> <p>Project: Tutoring and coaching activities aimed at reorganising the sales network and internal operations and project management processes. Development of commercial configurators for the company's main product categories</p> <p>Company headquarters: Reggio Emilia (RE) - Carate Brianza (MB)</p> <p>Business sector: Production of automatic warehouses for axial and planar products (i.e. bars, tubes and sheets) for steel and carpentry companies</p> <p>Role: Project co-ordination and execution</p>
2016 (12 months)	<p>Company: CDM Technoconsulting SpA</p> <p>Project: the project consists of two activities: (i) training of CDM employees (18 in total) in project management according to the references of the PMBOK (PMI) and ISO 21500:2012 'Guidance on project management'; (ii) design of the company's project management system according to ISO and PMI guidelines</p> <p>Company headquarters: Sorbolo (PR)</p> <p>Business sector: ICT system integrator</p> <p>Role: Project co-ordination and execution</p>
2015	<p>Company: MATTER Srl</p>

(8 months)	<p>Project: The project consists of 3 main activities: (i) Development of a software application for the evaluation of investments in automated warehouses to be used in the proposal management phase; (ii) Design and development of a Balanced Scorecard type control system, through the realisation of static functional dashboards; (iii) Design and development of algorithms for the optimisation of picking according to work orders</p> <p>Company headquarters: Reggio Emilia (RE)</p> <p>Business sector: Production of automatic warehouses for axial and planar products (i.e. bars, tubes and sheets) for steel and carpentry companies</p> <p>Role: Project co-ordination and execution</p>
2014 (12 months)	<p>Company: MASELLI MISURE SpA</p> <p>Project: Customisation and implementation of conversions from the current management infrastructure to the new ERP/CRM management infrastructure</p> <p>Company headquarters: Parma (PR)</p> <p>Business sector: Manufacture of measuring instruments for the chemical, food and pharmaceutical industry</p> <p>Role: Project co-ordination and execution</p>
2014 (12 months)	<p>Company: DANONE SPA</p> <p>Project: analysis and development of models and software for milk price forecasting</p> <p>Company headquarters: Milan (MI)</p> <p>Business sector: Milk-based food production</p> <p>Role: Project co-ordination and execution</p>
2014 (12 months)	<p>Company: MASELLI MISURE SpA</p> <p>Project: the project is composed of different activities relating to (i) analysis and mapping of business processes; (ii) analysis of business information systems and verification of their compliance with the analysed processes; (iii) redesign of business processes and collaboration in the choice of business information systems suitable to support the redesign carried out</p> <p>Company headquarters: Parma (PR)</p> <p>Business sector: Manufacture of measuring instruments for the chemical, food and pharmaceutical industry</p> <p>Role: Project co-ordination and execution</p>
2013 (24 months)	<p>Company: FIVES OTO SpA</p> <p>Project: The project consists of different activities: (i) analysis and optimisation of production planning, scheduling and control processes; (ii) development of applications in MS project in multi-project management logic for load control and production planning; (iii) development of logic and visual management systems for operational scheduling (Scrumban-Board systems); (iv) development of applications for calculating production and logistics kpi; (v) analysis of physical production flows and redesign of company layout; (vi) detailed design and implementation of a company component pre-assembly department with a 5S model</p> <p>Company headquarters: Boretto (RE)</p> <p>Company activity: production line for welded metal tubing; production of high capacity elevator trucks (16t ÷ 50t)</p> <p>Role: Project co-ordination and execution</p>
2012 (5 months)	<p>Company: Dr. Ing. Mario Cozzani Srl</p> <p>Project: the project covered (i) redefinition of general criteria for production planning, scheduling and control; (ii) application development for capacity control in the planning phase; (iii) development of logic for data collection in production (MES); (iv) development of models for production control</p> <p>Company headquarters: Arcola (La Spezia)</p> <p>Business sector: production of valves for high-power compressors.</p> <p>Role: Project co-ordination and execution</p>
2011 (9 months)	<p>Company: RIGHI Srl</p> <p>Project: the project covered (i) redefinition of general criteria for production planning, scheduling and control; (ii) application development for capacity control in the planning phase; (iii) development of logic for data collection in production (MES); (iv) development of models for production control</p> <p>Company headquarters: Reggio Emilia</p> <p>Business sector: Production and distribution of traditional frozen food, especially in the field of savoury pies and puff pastry snacks.</p> <p>Role: Project co-ordination and execution</p>
2010 (10 months)	<p>Company: OTO MILLS SpA</p> <p>Project: Design and realisation of assembly department for Oto Lift Trucks (forklifts with lifting capacities from 16t to 50t) according to lean manufacturing principles. Design and implementation of operational programming logic for the Oto Lift Trucks assembly department</p> <p>Company headquarters: Boretto (RE)</p> <p>Company activity: production line for welded metal tubing; production of high capacity forklift trucks (16t ÷ 50t)</p> <p>Role: Project co-ordination and execution</p>
2010	<p>Company: DENIPRO AG</p>

(10 months)	<p>Project: food environment testing for food compatibility of Deniroll® component</p> <p>Company headquarters: Weinfelden (Switzerland)</p> <p>Business sector: production of material handling components</p> <p>Role: Project co-ordination and execution</p>
2009 (3 months)	<p>Company: DENIPRO AG</p> <p>Project: technical analysis to verify the compatibility of the Deniroll® product in a food environment plus subsequent study and conceptual re-engineering of the Deniroll® component</p> <p>Company headquarters: Weinfelden (Switzerland)</p> <p>Business sector: production of material handling components</p> <p>Role: Project co-ordination and execution</p>
2009 (3 months)	<p>Company: Eurofusioni Nironi Srl</p> <p>Project: company energy consumption analysis and design of energy saving solutions. Coordination for the implementation of the designed technical solutions (identification of suppliers, coordination of installation, commissioning and testing)</p> <p>Company headquarters: Reggio Emilia</p> <p>Business sector: production of die-cast components.</p> <p>Role: Project co-ordination and execution</p>
2009 (36 months)	<p>Company: CSF INOX SpA</p> <p>Project: analysis of the sector of pump manufacturers for civil sewage treatment plants. Reliability analysis of the company's pumps for use in a different sector (lifting of civil sewage plants) and development of a model for calculating the Total Cost of Ownership (TCO) of the pump for use in civil sewage plants</p> <p>Company headquarters: Montecchio Emilia (Reggio Emilia)</p> <p>Business sector: design, manufacture and marketing of centrifugal and positive displacement pumps for the food, pharmaceutical and beverage industries.</p> <p>Role: Project co-ordination and execution</p>
2007 (6 months)	<p>Company: PARMACOTTO SpA</p> <p>Project: analysis of the potential consumption of the new logistic-productive pole located in Parma and technical/economic feasibility study for the optimisation of energy consumption (electrical and cooling energy) of the pole</p> <p>Company headquarters: Parma</p> <p>Business sector: Production of animal preserves (hams)</p> <p>Role: Project participation and execution</p>
1999 (6 months)	<p>Company: Carra Artemio Srl</p> <p>Project: adaptation of company documentation to obtain UNI EN ISO 9000 certification and development of production maintenance plan for the feed production plant located in Sorbolo (PR)</p> <p>Company headquarters: Bogolese di Sorbolo (PR)</p> <p>Business sector: production and marketing of feed for livestock and pets</p> <p>Role: project execution</p>

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES OF RECOGNISED PRESTIGE

2019 to date	Editorial board member of International Journal of RF Technologies: Research and Applications
September 28-30, 2018	Co-chair with prof. Cleopatra Bardaki (Athens University of Economics and Business University) of a track titled "Internet of Things-Systems enable Smart Living and Business" for the 12th Mediterranean Conference on Information Systems (MCIS 2018) http://events.di.ionio.gr/mcis2018/ September 28-30, 2018, Corfu, Greece.
2012 to date	Editorial Board member: Journal of Industrial Engineering and Management. http://www.jiem.org/index.php/jiem
2012	Guest Editor for the international scientific journal European Journal of Innovation Management (EJIM) of the special issue entitled 'Green innovation management: theory and practice', Vol. 15 No. 4 (2012)

SCIENTIFIC PUBLICATIONS - BIBLIOMETRIC ANALYSIS

Bibliometrics index ¹	84 cited documents; h-index: 20; Citation: 1679
	Excludes self-citations of all authors: 84 cited documents; h-index: 19; Citation: 1495 (89%)
Source type	Journal (52) - Conference Proceeding (30) - Book (1) - Book Series (1)
Publication per year	2024(2) - 2023(6) - 2022(3) - 2021 (4) - 2020(6) - 2019(5) - 2018(3) - 2017(7) - 2016(6) - 2015(3) - 2014(1) - 2013(8) - 2012(4) - 2011(1) - 2010(3) - 2009(4) - 2008(1) - 2007(4) - 2006(9) - 2005(2) - 2004(2)
Co-Authors	Romagnoli G. (21) - Bottani E. (20) - Bevilacqua M. (17) - Neroni M. (17) - Rizzi A. (15) - Zammori F. (14)
Subject area	Engineering (62) - Business, Management and Accounting (48) - Decision Sciences (28) - Computer Science (19) - Environmental Science (17)

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LANGUAGE SKILLS

Mother tongue		ITALIAN			
Other languages:	COMPOSITION		PARLATO		WRITTEN production
	Listening	Reading	Interaction	Oral production	
ENGLISH	B2	B2	B1	B1	B2

OTHER SKILLS

Professional skills	<p>Teaching, research and professional activities have enabled Massimo BERTOLINI to acquire solid skills in operations and project management. In particular, skills have been developed in the following application areas:</p> <ul style="list-style-type: none"> (i) selection and use of automatic identification devices for the automation of business processes in manufacturing and retail companies; (ii) development of ICT applications for the use of automatic identification devices; (iii) development, customisation and management of Business Intelligence applications and dashboards for business process management; (iv) design, development and validation of stochastic discrete-event simulation models for the design and management of complex logistics-production systems (v) design, implementation and management of complex innovative processes for manufacturing companies; (vi) design, implementation and management of lean manufacturing / lean project management systems; (vii) design/design, implementation and management of corporate information systems for operations & production management and project management, such as Enterprise Resource Planning, Manufacturing Resource Planning, Manufacturing Execution System, Advanced Planner and Optimiser, Workflow Management System.
Computer skills	<p>Expert knowledge of Windows OS</p> <p>Knowledge of Microsoft Office applications at the following levels:</p> <ul style="list-style-type: none"> (i) excellent, with ability to develop advanced functions for Microsoft Word, Microsoft PowerPoint (ii) excellent, with ability to develop advanced programming functions and development of stochastic simulation models with discrete components for Microsoft Excel and Visual Basic for Application (iii) Total mastery of Microsoft OneNote, Microsoft Outlook, Microsoft Project (with development of advanced programming functions), Microsoft Visio (iv) expert use of Microsoft Access <p>Excellent knowledge of Simu8® application (stochastic discrete-event simulation software)</p> <p>Good knowledge of SPSS® software package</p> <p>Elementary use of AutoCAD application</p> <p>Elementary knowledge of the INFOR LN ERP application</p>

MILITARY SERVICE

April 2000 - April 2021	Military service in the National Fire Brigade Corps, in the Provincial Command of Bologna and the Provincial Command of Reggio Emilia.
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The undersigned Massimo BERTOLINI, pursuant to and for the purposes of Articles 46 and 47 and aware of the criminal sanctions provided for in Article 76 of Presidential Decree no. 445 of 28 December 2000 in the event of falsity in deeds and mendacious declarations, hereby declares that the information provided in this curriculum vitae, drawn up in European format, is true. Furthermore, I authorise the processing of my personal data in accordance with Legislative Decree 196 of 30 June 2003 and Art. 13 GDPR (EU Regulation 2016/679) for the purposes of personnel search and selection.

Modena, 24/07/2024

Massimo BERTOLINI

