

# Anna De Carolis

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## EDUCATION

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- PhD in Management, Economics and Industrial Engineering** Expected October 2017  
*Politecnico di Milano, Milano, IT*
- Masters of Science in Management and Industrial Engineering** Completed July 2014  
*Politecnico di Milano, Milano, IT*  
*Final grades: 109/110*
- Bachelor of Science in Management and Industrial Engineering** Completed September 2011  
*Politecnico di Milano, Milano, IT*

## EMPLOYMENT

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- Politecnico di Milano, Milano, IT** Nov, 2014 – now
- Research activities in the area of smart and digital technologies applied into manufacturing domain, Industry 4.0, Cyber-Physical Systems functionalities and benefits related to their adoption, assessment of manufacturing processes and capabilities in terms of digital readiness.
  - Collaboration in European funded projects.
  - Collaboration in research activities of Osservatorio Smart Manufacturing and Osservatorio Industria 4.0 of the School of Management of Politecnico di Milano.
  - Tutoring of Master of Science in Management and Industrial Engineering thesis.
  - Tutoring in Operations Management course for Master of Science in Management and Industrial Engineering students
  - Consultancy activities to manufacturing companies for assessing their processes and capabilities digital readiness level

## RESEARCH EXPERIENCES

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- Osservatorio Industria 4.0, Milano, IT** Sept, 2016 – now
- Application and validation of a descriptive model of Cyber-Physical Systems functionalities in manufacturing.
  - Application of the digital readiness assessment maturity model to manufacturing companies.
- Osservatorio Smart Manufacturing, Milano, IT** Sept, 2015 – Sept, 2016
- Analysis and comparison of Governmental international plans on Smart Manufacturing.
  - Research and development of a descriptive model of Cyber-Physical Systems functionalities in manufacturing.
  - Development of a maturity model to assess manufacturing company capabilities and to guide them towards digitalization.
- Osservatorio Smart Manufacturing, Milano, IT** Sept, 2014 – Sept, 2016
- Empirical research and model development activities to identify the main priorities in terms of digital innovation in manufacturing industry, with the aim to support companies in choosing and implementing innovative solutions.
  - Meeting and debate co-ordinator activities with the aim to facilitate information and innovation exchange between manufacturing companies and technology providers.

**sCorPiuS project – European Roadmap for Cyber-Physical Systems in Manufacturing**

Feb, 2015 – Feb, 2017

Coordination and operational activities in the project with the aim to: (i) create a technological and scientific roadmap addressing the implementation of Cyber-Physical Systems in manufacturing; (ii) build an experts community at European level in this area of interest; (iii) support institutional and governmental stakeholders in defining funding actions within the “Factory of the Future” initiative.

**FITMAN project - Future Internet Technologies for MANufacturing industries**

Nov, 2014 – Oct, 2015

Operational activities in the project with the aim to identify and measure KPIs related to the functional and technical requirements of ten different manufacturing use cases.

**EXPLORE project - Extended Exploitation Of European Research Projects, Knowledge And Results**

Nov, 2014 – Aug, 2015

Operational activities in the project to develop a system aiming at collecting existing knowledge in the area of production technologies at European level.

**OTHER ACTIVITIES**

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**Consultancy activity in Artemide S.p.A.**

Feb, 2017 – now

Analysis of Artemide S.p.A. company processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in Myrtha Pools S.p.A.**

Dec, 2016 – now

Analysis of Myrtha Pools S.p.A. processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in ABB S.p.A. – Santa Palomba, IT**

Dec, 2016 – Jan, 2017

Analysis of ABB S.p.A. (Santa Palomba factory) processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in ABB S.p.A. – Monselice, IT**

Oct, 2016 – Nov, 2016

Analysis of ABB S.p.A. (Monselice factory) processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in ABB S.p.A. – Ossuccio, IT**

Sept, 2016 – Oct, 2016

Analysis of ABB S.p.A. (Ossuccio factory) processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in Lindt S.p.A.**

Jul, 2016 – Sept, 2016

Analysis of Lindt S.p.A. processes and capabilities to assess their digital readiness maturity level

**Consultancy activity in Cosberg S.p.A.**

May, 2016 – Jun 2016

Analysis of Cosberg S.p.A processes and capabilities to assess their digital readiness maturity level

**AWARDS**

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APMS 2016 – INTERNATIONAL CONFERENCE ADVANCES IN PRODUCTION MANAGEMENT SYSTEMS – Iguassu Falls, Brasil

Doctoral workshop award for the best research proposal