

Adalberto Polenghi

Curriculum Vitae

✉ adalberto.polenghi@polimi.it
in [adalbertopolenghi](#)



Born in 1992
Nationality: Italian

Education

- 2017 - present **PhD student in Management Engineering**, *Politecnico di Milano*, Milan, Italy, I am actually enrolled in the PhD course held in the Department of Management, Economics and Industrial Engineering (DIG) at Politecnico di Milano. It concerns the Asset Management of physical engineered assets (as machines and production systems), over all of the asset lifecycle phases (BoL, MoL, and EoL) and at every organisational level (strategic, tactical, organisation). In particular, the focus is put on how to enable information and data sharing and exchange to support asset-related decisions.
- July 2018 - **Visiting PhD student**, *University of Cincinnati*, Cincinnati, Ohio, USA,
August 2018 The visiting period was spent in the University of Cincinnati studying how the Cyber-Physical Systems (CPS) may support the scheduling process, with a special focus on the integration of data and information from the shop-floor. All was performed from the Asset Management perspective, leaving room for enlargement for the integration of maintenance management.
- July 2017 - **Research fellow in Management Engineering**, *Politecnico di Milano*,
October 2017 Milan, Italy, The research deals with the development of themes concerning Industry 4.0. More in depth, the studies are focused on the scheduling activity improvement, thanks to the new technology made available by the paradigm of Industry 4.0. The improvement of the scheduling techniques involves the introduction of simulation as important tool to test the sequences and the plans created by the scheduling algorithm.
- 2014-2017 **Master of Science in Mechanical Engineering**, *Politecnico di Milano*, Milan, Italy, Final mark: 104/110 .
Thesis title: **Simulation-supported framework for job shop scheduling with genetic algorithm** - See publications for further details
- 2011-2014 **Bachelor of Science in Mechanical Engineering**, *Politecnico di Milano*, Milan, Italy, Final mark: 94/110.
- 2006-2011 **Diploma**, *Scientific High School G. Novello*, Codogno, Italy, Final mark: 100/100.

Didactics

- 2017-present **Teaching assistant**, *Politecnico di Milano*, Milan, Italy.
Teaching assistance for different courses:
- 2017 - Gestione degli Impianti Industriali, Management Engineering - Bachelor
 - 2018 - Gestione dei Sistemi Logistici e Produttivi, Management Engineering - Bachelor
 - 2018 - Industrial Technologies, Management Engineering - Master

Experience

- January - May, 2017 **Internship**, *VHIT S.p.A. Bosch Group*, Offanengo, Italy.
The Internship is devoted to support the R&D Department in the development of a new product: the activity includes most of the phases, from the product definition to prototyping. The project management is the most important competence developed through this experience, being it more focus on the managerial perspective of the development rather than on the technical aspect.
- July, 2016 **Kaizen week**, *Pietro Fiorentini divisione Samgas*, Vernate, Italy.
Improvement of the company's processes to reduce non-value adding activities:
- Training course about *Kaizen* methodology
 - Development and implementation of the *Kanban* warehouse management system

Publications

- Fumagalli L., Macchi M., Negri E., Polenghi A. and Sottoriva E. (2017) *Simulation-supported framework for job shop scheduling with genetic algorithm*, Proceedings of the XXII Summer School of Industrial System Engineering "Francesco Turco"
- Fumagalli L., Negri E., Sottoriva E., Polenghi A., and Macchi M. (2018) *A novel scheduling framework: integrating genetic algorithms and discrete event simulation*, International Journal of Management and Decision Making, 17(4), 371-395
- Polenghi A., Fumagalli L. and Roda I. (2018) *Role of simulation in industrial engineering: focus on manufacturing systems*, IFAC-PapersOnLine, 51(11), 496-501
- Storti E., Cattaneo L., Polenghi A. and Fumagalli L. (2018) *Customized Knowledge Discovery in Databases methodology for the Control of Assembly Systems*, Machine, 6(45)

Languages

- Italian Mother tongue
- English Technical language proficiency *Certified level B2*

Certifications

- Practice profession Exam held to practice Industrial Engineering profession, passed in 2017 with grade 89/100
- MathWorks Certified Matlab Associate Successfully completed exam certification on March 12, 2018
- Introductory Certificate in Project Management Certification regarding the knowledge of the rules, methodologies and basic competences of Project Management, released by IPMA Italy
- ECDL European Computer Driving License, released by AICA

Awards

- December 2016 **Certification of competences** as autonomy, responsibility, push to excellence and improvement of communication skills, teamwork, problem solving and result-oriented way of thinking, released by Fondazione Sodalitas

IT Skills

Microsoft Office	Knowledge of the main platform's software, as Word, Power Point, Excel and Outlook, developed during the realization of various projects for the University
Microsoft Project	Software devoted to the scheduling, management and controlling of the activities involved in a project
Matlab	Programming language
Simulink	Simulation of systems in the MatLab environment
CAD software	Basic knowledge of three widespread software: Autodesk Inventor, Solid Works, Solid Edge
Abaqus	Software devoted to FEM analysis
Minitab	Statistical software

Interests

Swimming	Amateur level
----------	---------------