

# CURRICULUM VITAE

## **Prof. Pasquale Russo Spena**

Politecnico di Torino

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## **Affiliation and current position**

Politecnico di Torino

Department of Management and Production Engineering

Associate professor of Manufacturing Technologies and Systems (SSD Ing-Ind/16)

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## **Previous position**

From 09/2010 to 12/2018, Assistant professor of Manufacturing Technologies and Systems (SSD Ing-Ind/16) at the Faculty of Science and Technology of the Free University of Bozen-Bolzano.

## **Education**

**2004:** M.Sc., Master of Science in Materials Engineering (focus: Metals Processing) at the Politecnico di Torino, Torino, Italy.

**2008:** Ph.D, Research Doctorate in Industrial Production Systems Engineering (XXI cycle) at the department of Department of Management and Production Engineering (ex Dept. of Production Systems and Business Economics) at the Politecnico di Torino.

## **Short CV**

Prof. Pasquale Russo Spena is Associate Professor of Manufacturing Technologies and Systems at the Department of Management and Production Engineering of the Politecnico di Torino.

Prof. Pasquale Russo Spena studied Materials Engineering (focus: Metals Processing) at the Politecnico di Torino and achieved a Ph.D. in Industrial Production Systems Engineering (XXI cycle) at the Politecnico di Torino. In 2009, He started working as Research Assistant at the Department of Management and Production Engineering (ex Dept. of Production Systems and Business Economics) at the Politecnico di Torino, where his work was mainly focused in

developing models and tools for the management of product information in manufacturing processes.

From 09/2010 to 12/2018, Prof. Pasquale Russo Spena was Assistant Professor of Manufacturing Technologies and Systems at the Faculty of Science and Technology at the Free University of Bozen/Bolzano. He was member of the main research area “Industrial Engineering & Automation (IEA)”.

Member of the Collegium of the PhD programme in “Sustainable Energy and Technologies”, Faculty of Science and Technology, UniBz.

Previous member of the Course Council of the bachelor in Industrial and Mechanical Engineering, Faculty of Science and Technology, UniBz.

Previous responsible of the Erasmus+ exchange for the engineering students of the Faculty of Science and Technology, UniBz.

He is member in various national and international scientific organizations. Prof. Russo Spena has published more than 50 scientific papers in refereed journals, proceedings and book contributions.

## **Didactic activity**

Prof. Pasquale Russo Spena has held lectures in the field of Manufacturing and Production Engineering for the bachelor course in “Industrial Mechanical Engineering” and for the master courses in “Industrial Mechanical Engineering” and “Energy Engineering” of the Faculty of Science and Technology, UniBz.

## **Research**

The main research activities are in the field of Manufacturing Technology, particularly about the relationships between fabrication, machining and joining processes (e.g., process parameters) with product quality:

### **Manufacturing and metals characterization**

- Sheet forming;
- Foundry processes;
- Mechanical characterization of metals (tensile properties, hardness, formability, ecc...); - Microstructural characterization of metals (Optical and SEM analysis, EDS, ecc...).

### **Joining techniques for metal alloys**

- Assessment of weldability of new and innovative steel sheet grades for the automotive industry;
- Tailor welded blanks for the automotive industry;
- Dissimilar welding of metal alloys;
- Resistance spot welding;

## **Research Projects**

*2017-2018* Principal Investigator of the research project “Additive manufacturing for advanced functional design”. Funding body: Free University of Bozen-Bolzano. Grant: TN2092.

*2016-2018* Principal Investigator of the research project “Additive Manufacturing FDM: Dimensional Accuracy and Product Acceptability”. Funding body: Free University of BozenBolzano. Grant: TN2078.

*2015-2018* Principal Investigator of the research project “Tailor welded blanks of aluminum alloys and steels for the fabrication of automotive lightweight components”. Funding body: Free University of Bozen-Bolzano. Grant: TN2062.

*2013-2016* Principal Investigator of the research project “Field study to determine requirements for flexible and agile manufacturing and assembly systems for SMEs”. Funding body: Free University of Bozen-Bolzano. Grant: TN2003.

*2013-2016* Principal Investigator of the research project “Arc and laser welding of innovative steels for automotive sheet components”. Funding body: Free University of Bozen-Bolzano. Grant: TN2001.

*2010-2013* Principal Investigator of the research project “Effect of process parameters on solidification of large mottled cast iron components”. Funding body: Free University of Bozen-Bolzano. Grant: TN5029.

## **Memberships**

Member of The Minerals, Metals & Materials Society (TMS), USA.

Member of the “Materials Characterization Committee” of the TMS Annual Meeting and Exhibition, USA.

Member of the Associazione Italiana di Tecnologia Meccanica (AITEM), Italy. Member of the American Welding Society (AWS), USA.

## **Language skills**

Italian (mother tongue)

English (fluent, C1 level, IELTS certification)

German (basic skills, B1 level, ÖSD certification)

Torino, 28.12.2018

Signature

