

Dr Michelangelo Mortello (PhD)

Currently employed at Istituto Italiano della Saldatura (IIS)

Manager of funding and collaborative programmes in research, innovation and higher education

PhD in Mechanical and Management Engineering. Chartered industrial engineer.



Birth: 09-05-1986. Terlizzi (Bari) (ITALY)

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Latest degree: PhD

EXPERIENCE

<p>Manager of funding and collaborative programmes at Istituto Italiano della Saldatura (IIS) 20th Jan 2020- ongoing</p>		<ul style="list-style-type: none">▪ R&I Programme management and coordination▪ New R&I business line implementation▪ Business development and conferencing▪ Proposal tender and bid preparation▪ Member of international delegations▪ Develop and maintain interaction with customers (including key accounts)▪ Public funding management
<p>Senior project leader at The Welding Institute (TWI) 3rd Dec 2017- 16th Jan 2020</p>		<ul style="list-style-type: none">▪ R&D technical project management and delivery▪ Proposal preparation▪ Develop and maintain interaction with customers (including key accounts Boeing, Rolls Royce, Honda)▪ Lead the implementation of technical solution▪ Participation to conferences, technical meetings, workshops▪ Delivery of training courses for customers▪ Coaching, mentoring of PhD students▪ Health and safety assessment
<p>Post-doc research scientist at Cranfield WAAM Mat 1st May 2016- 30th Nov 2017</p>		<ul style="list-style-type: none">▪ Technology development for wire-laser additive manufacturing, powder bed systems, laser material processing, repairing techniques. Process monitoring▪ Optimization of process conditions (Design of experiments)▪ Supervising students
<p>Professor Assistant Jan 2014 – Apr 2017</p>		<ul style="list-style-type: none">▪ Delivering lectures in material science and technology▪ Evaluator in oral and written examinations for students
<p>Visiting PhD researcher at PIMM CNRS Paristech, Sept 2015-Dec 2015 // Sept 2013-Feb 2014</p>		<ul style="list-style-type: none">▪ Researcher in laser material processing, Design of experiments, Material characterization (optical microscopy, SEM, X rays, tensile tests)
<p>PhD researcher at TISMA Politecnico di Bari, Mar 2014-Aug 2015 // Jan 2013-Aug 2013</p>		<ul style="list-style-type: none">▪ Researcher in Laser material processing, Design of experiments, Material characterization (optical microscopy, SEM, X rays, tensile tests), Numerical analysis, Supervising students

MAIN EDUCATION

- **PhD** in laser-material processing (welding) at CNRS Paristech France /Politecnico di Bari (honour certificate DOCTOR EUROPE) (2013-apr 2016)
- **Master qualification** in management of European projects at Eurocube (2014)
- **MEng** (2 years) in manufacturing at Politecnico di Bari (marks 110/110) (2009-jul 2012)
- **BS** (3 years) in mechanical engineering at Politecnico di Bari (2005-feb 2009)

TRAINING

- Master in Management of European projects
- Fracture analysis at TWI
- COSHH assessor training at Cranfield University
- Rhinoceros CAD modelling training at Cranfield University
- Classes and workshops on micro-manufacturing at Università Federico II Napoli
- PAM STAMP at ESAFORM at ESI Group

LANGUAGES

English: Advanced/Proficient

French: Intermediate

Italian: Mother tongue

IT TOOLS

Common IT tools: Office®, AutoCAD®, Solidworks®, CNC machine programming (Gcode, Python®, C)

Internal corporate IT tools: Security/compliance governance, business analytics, database administration, mobile applications, project management

INDUSTRY STANDARDS

Most familiar but not limited to: ISO, ASTM

LIST OF MAIN PUBLICATIONS

- Mechanical and microstructure analysis of AA6061 and Ti6Al4V fiber laser butt weld (2017).
- Effects of Laser Offset and Hybrid Welding on Microstructure and IMC in Fe–Al Dissimilar Welding (2017).
- Laser offset welding of AZ31B magnesium alloy to 316 stainless steel (2017).
- ANN modelling to optimize manufacturing processes: the case of laser welding (2016).
- A FEM model to study the fiber laser welding of Ti6Al4V thin sheets (2016).
- FEM Analysis of Fiber Laser Welding of Titanium and Aluminum (2016).
- FEM analysis of fiber laser offset welded homogeneous and dissimilar joints (2015).
- Ytterbium fiber laser welding of Ti6Al4V alloy (2015).
- Modeling and experimental analysis of fiber laser offset welding of Al-Ti butt joints (2015).
- Yb-YAG laser offset welding of Al5754 and T40 dissimilar butt joint (2015).
- Microstructural characteristics and mechanical properties in fiber laser beam welds of Ti6Al4V alloy (2014).
- Finite element model for laser welding of titanium (2014).
- Study on arc and laser powers in the hybrid welding of AA5754 Al-alloy (2014).
- Influence of shoulder geometry and coating of the tool on the friction stir welding of aluminum alloy plates (2013).