

VINCENZO LUNETTO

Date of birth: **25 Luglio 1993**

Residence: **Torino**

Birth place: Palermo

European driving license: B category

Esame di Stato for the qualification to the profession of engineer (Section A)

Italian: native speaker

English: fluent written, fluent speaking

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List of publications: www.researchgate.net/profile/Vincenzo_Lunetto



PROFESSIONAL PATH:

- **Research Assistant at the Interdepartmental center J-Tech@Polito** (<http://www.j-tech.polito.it/>)

Research topic: **Study, simulation, experimentation and optimization of semisolid and liquid joining processes.**
Scientific supervisor: **Prof. Franco Lombardi.** Start date: **01/01/2021.** Ongoing

- **Teaching activity**

- **Assistant professor** for the course of “Comunicazione grafica e fabbricazione meccanica”. Course of the Bachelor degree in Industrial Production Engineering, **Politecnico di Torino.** AY: **2018-2019**

- **Assistant professor** for the course of “Tecnologie e processi di fabbricazione”. Course of the MSc degree in Biomedical Engineering, **Politecnico di Torino.** AY: **2017-2019**

- **Professor** for the course of “Manufacturing Technology”. Course of the Bachelor degree in Mechanical Engineering, **Free University of Bozen-Bolzano.** AY: **2017-2018**

- **Consultancy for General Motors in the framework of the project “Engine Thermal Insulation”**

Analysis of production technologies for thermal insulation of automotive engine components. **Research scholarship: €5,000.00.** Supervisors at Politecnico di Torino: **Prof. Luca Settineri, Prof. Paolo C. Priarone.** Start date: **August 2016,** End date: **December 2016**

- **Student part-time collaboration**

Preparation of didactic material, **Politecnico di Torino.** Start date: **September 2015,** End date: **June 2016**

EDUCATIONAL PATH:

- **PhD in Management, Production and Design**

Politecnico di Torino. Start date: **01/11/2017.** Graduation: **13/04/2021**

Research topic: **Energy efficiency and circular economy implications of additive manufacturing.** Supervisors: **Prof. Luca Settineri, Prof. Paolo C. Priarone**

- **Visiting PhD student**

UNSW - The University of New South Wales. Sydney, Australia. Period: **01/10/2019 - 30/06/2020.** Research topic: **Circular Economy strategies and their implementation to manufacturing systems.** Supervisor: **Prof. Sami Kara** (Sustainability in Manufacturing & Life Cycle Engineering Research Group @ UNSW, <http://www.lceresearch.unsw.edu.au/>)

- **MSc in Mechanical Engineering (LM-33)**

Final mark: **110/110 cum laude**

Politecnico di Torino. Start date: **September 2015.** Graduation: **25/10/2017**

Thesis topic: **Life Cycle Assessment of additive manufacturing processes.** Supervisors: **Prof. Luca Settineri, Prof. Paolo C. Priarone**

- **Erasmus+ (Development of the MSc thesis)**

NTNU - Norges Teknisk-Naturvitenskapelige Universitet. Trondheim, Norway. Period: **March 2017 - July 2017.** Supervisor: **Prof. Knut Sørby.** Thesis link: <https://ntnuopen.ntnu.no/ntnu-xmlui/handle/11250/2453825>

- **Bachelor in Mechanical Engineering (L-9)**

Final mark: **110/110 cum laude**

Università degli Studi di Palermo. Start date: **September 2012.** Graduation: **21/07/2015**

Thesis topic: **State of art of hybrid joints in metallic material and composites.** Supervisors: **Prof. Livan Fratini, Prof. Gianluca Buffa**

INFORMATIC SKILLS:

Well experienced on the use of the following softwares: **Ansys, Autodesk Inventor, Autodesk Netfabb, Fluke Power Log, GrabCAD Print, MATLAB, Minitab, Pack Office, QForm, Siemens NX, Simulink, SolidWorks, Sorpas, Sysweld, VISI Flow**

RESEARCH PROJECTS AND LABORATORY EXPERIENCES:

- **2018-2020: Research activity in the framework of the international project** “Sustainable integration of HYbrid additive/subtractive MANufacturing for difficult-to-cut materials (**Acronym: HY-MAN**)”, funded under the call “POR-FESR 2014/2020 - Asse I, Azione I.1b.1.2 - Manunet III Transnational Call 2017”. Supervisors: **Prof. Luca Settineri, Prof. Paolo C. Priarone, Funding awarded: € 119,750.00**
- **2018-2020: Research activity in the framework of the project** “Multidisciplinary Valuation of the technological and sustainability performance of different Additive manufacturing systems for the realization of components in Metallic and Polymeric materials (**Acronym: VAMP**)”, co-financed as part of the call for research projects within the Department of Management and Production Engineering of Politecnico di Torino. Supervisor: **Prof. Paolo C. Priarone, Total cost: € 62,500.00, Financed amount: € 50,000.00**
- **2017-2020: Laboratory activity at IAM@PoliTo - Integrated Additive Manufacturing Laboratory.** Experimental measurements and computation of regression models for the energy characterization of production systems for manufacturing, focus on 3D printers (Additive Manufacturing), single-phase and three-phase wire supply. Supervisors: **Prof. Luca Settineri, Prof. Paolo C. Priarone.** Laboratory supervisor: **Prof. Luca Iuliano** (<http://iam.polito.it/>)

TRAINING COURSES:

- **Arc welding, laser welding and robot programming.** Promoted by the Politecnico di Torino in collaboration with ABB and Optoprim. Course date: **11/2020**
- **Thermographic system (FLIR®) for welding analysis and welded joints.** Promoted by the Politecnico di Torino in collaboration with Diagnostic Engineering Solution. Course date: **14/02/2019**
- **Solid Bonding and the manufacturing processes taking advantage of this phenomenon.** Promoted by the Università degli Studi di Palermo as part of the ESAFORM international conference. Course date: **22/04/2018**

AWARDS AND ACKNOWLEDGMENTS:

- **2019:** Selected to present at the **Scientific and Technical Committee for Life Cycle Engineering and Assembly (STC A) of the 69th CIRP General Assembly.** Contribution: Unit process energy consumption models for additive manufacturing. Dates of the general assembly: 18-24/08/2019. Birmingham, UK
- **2019:** Selected to participate at the **first italian Hackathon on manufacturing** promoted from A.I.TE.M.. Dates of the event: 17-18/05/2019. Location: Università degli Studi di Napoli Federico II, sede DIGITA Academy
- **2018: Winner of the award for young researchers "Nuove idee per la Fabbrica del Futuro".** Promoted from the Consiglio Nazionale delle Ricerche (CNR). **Project description:** "Modular multi-sensor system for the identification of complex end of life products in circular economy factories". **Award description:** Scholarship of 2500 euros to spend on an internship/visit in a research organization chosen by the winner. **Project conceived by 5 people from different research centers in Italy.** Dates of the event: 26-30/11/2018. Road-show: Napoli - Torino - Milano - Parma - Roma
- **2018: SolidWorks Mechanical Design Certificate** (Associate level). Dassault Systemes
- **2015:** Selected to participate (top 25%) at **Mentors4u**, merit program for university students

REGISTRATION TO THEMATIC PROFESSIONAL ASSOCIATIONS:

- **2018-Ongoing:** Junior member of the Associazione Italiana Tecnologie Manifatturiere, **A.I.TE.M.** (<https://www.aitem.org/>)
- **2016-Ongoing:** Alumnus of **Mentors4u** (<https://www.mentors4u.com/>)

OTHER ACTIVITIES AND HOBBIES:

- **2018-Ongoing:** Volunteer at Ce.Pi.M., Centro Persone Down. Torino (<http://www.fondazionecepim.it/>)