

# Luca Santoro

## Curriculum Vitae

Department of Mechanical and Aerospace Engineering

Politecnico di Torino

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🌐 My Webpage

🐙 Github   in LinkedIn



*Nec spe nec metu*

## Education

- 2021–2024 **PhD Machine Design**, Politecnico di Torino.  
*Thesis: Active thermography as non-destructive evaluation for welded joint*  
Presented over 15 published papers, over 10 conferences
- 2019–2021 **MEng Mechanical Engineering**, Politecnico di Torino.  
*Final Score: 110/110*
- 2016–2019 **BSc Mechanical Engineering**, Politecnico di Torino.  
*Final Score: 102/110*

## Research Experience

- May 2024 – **Member – Working Group NDT in Additive Manufacturing**, AP&D ETS – Italian Society  
Present *for NDT.*
- April 2023 – **Guest Scientist**, Technical University of Munich.
- July 2023 *Research Topic:*
- Additive manufacturing on stainless steel for civil applications.
  - Fatigue behavior of AM materials.
  - Thermography for fast evaluation of fatigue limit.

## Experience

- July 2024 – **Nominated TT Examiner (ISO 9712 level 1, 2, and 3)**, ADES Group.  
Present
- Conducting thermographic testing examinations in compliance with ISO 9712 standards for levels 1, 2, and 3.
  - Evaluating and certifying the competence of NDT personnel.
  - Preparing and reviewing examination documentation.
- March 2021 – **Intern**, ADES Group.
- June 2021
- Developed technical procedures for residual stress detection.
  - Conducted metallographic analysis and fracture mechanics studies.

## Certificates

- July 2024 **Qualified and Certified TT Level 3 ISO 9712**, ADES Group.
- January 2022 **CSWIP 3.0**, The Welding Institute.
- October 2019 **Licensed and Registered Engineer**, Order of Engineers of the Province of Syracuse, Italy.

## Patents

- 2023 **Brevetto nazionale**, Metodologia di identificazione delle tensioni residue su materiali e componenti mediante tecniche di termografia attiva .
- 2024 **Brevetto nazionale**, Metodologia Per Il Controllo Non Distruttivo Di Giunti Saldati Tramite Termografia Attiva.