

PERSONAL DETAILS

- **(**+39) 335 814 2426
- ☑ chiara.gianassi2@unibo.it
- ♥ Via Nazionale Sud, 1 40035
 Castiglione dei Pepoli (BO), Italy

COMPETENCES

- Theoretical and practical knowledge of DED and LPBF processes
- Strong knowledge of metallographic preparation and analysis procedures
- Proficiency in ABB RobotStudio software for industrial robot motion control
- 3D CAD design using CREO software
- Organizational and multitasking skills for managing multiple projects simultaneously

LANGUAGES

Italian	C2
English	B2
French	B2
German	A2

CERTIFICATIONS

English Trinity College London Certification – B1 French Delf Certification – B1 Esabac High Scool Diploma

DRIVING LICENSES

Category B driving license

CHIARA GIANASSI

PROFILE

PhD student at the Department of Industrial Engineering, specializing in the Automotive Engineering for Intelligent Mobility programme.

The research activities focus on laser metal additive manufacturing technologies, particularly Laser Powder Bed Fusion (LPBF) and Directed Energy Deposition (DED).

Key areas of study include the 3D printing of high-entropy alloy turbine blades for aeronautical engines, the development of metal matrix composites with cobaltbased alloys (Stellite) and WC/Co reinforcements, and the fabrication of bimetallic electric rotors for high-speed applications using additive manufacturing.

WORK EXPERIENCE

Alma Mater Studiorum, Bologna (Italy) | 2024 - Current

Tutor for the course of Manufacturing Technologies

C.R. Service S.r.I., Bologna (Italy) | 2017 – 2023

Administrative assistant at a vehicle registration and insurance agency

EDUCATION

Alma Mater Studiorum – University of Bologna

PhD - AUTOMOTIVE ENGINEERING FOR INTELLIGENT MOBILITY | 2023 - Current

Research on the application of metal additive manufacturing processes for the production of high-entropy alloys components

Alma Mater Studiorum – University of Bologna

MASTER'S DEGREE IN MECHANICAL ENGINEERING | 2021 – 2023

Final grade: 110/110 with honors

Thesis title: *Deposition of pure Fe coatings on copper tubes using DED technology* Internship in metal additive manufacturing technologies: DED (Directed Energy Deposition) and LPBF (Laser Powder Bed Fusion)

Alma Mater Studiorum – University of Bologna

BACHELOR'S DEGREE IN MECHANICAL ENGINEERING | 2017 – 2021

Final grade: 102/110

Thesis title: *Tensile characterization of thermoplastic and reinforced thermoplastic materials produced via Additive Manufacturing* Internship in FDM (Fused Deposition Modeling) technology

ITCS Gaetano Salvemini

H.S. DIPLOMA IN INTERNATIONAL RELATIONS FOR MARKETING | 2017

Final grade: 100/100 with honors

PUBLICATIONS

- Gianassi, C., Liverani, E., Ascari, A., Tonoli, A., Cavagnino, A., Fortunato, A. (2025). *Characterization of FeSi*_{2.9} and SS 316L produced by Directed Energy Deposition for bimetallic high-speed rotors (accepted for publication on the Proceedings of the ASME 2025)
- Gianassi, C., Liverani, E., Ascari, A., Fortunato, A. (2025). *Influence of process parameters on the properties of AlCoCr2FeMo0.5Ni high-entropy alloy coatings produced with laser directed energy deposition*. Journal of Laser Applications, 37(2), 022013-022023 [10.2351/7.0001574] https://dx.doi.org/10.2351/7.0001574
- Cui, Y., Gianassi, C., Fortunato, A., Zarri, L., Cavagnino, A. (2024). *High-Speed Synchronous Reluctance Motors with Additively Manufactured Rotors*. New York, IEEE [10.1109/ECCE55643.2024.10861406] https://dx.doi.org/10.1109/ECCE55643.2024.10861406
- Iqbal, H., Ascari, A., Gianassi, C., Liverani, E., Fortunato, A. (2025). A process-driven experimental analysis of different wire-fed Directed Energy Deposition processes employing the Laser, Electric Arc and Plasma sources (accepted for publication on the International Journal of Advanced Manufacturing Technology)