



Roberto Montalbetti



Education and qualification

- Sep. 2014- May 2019 **Bachelor degreee Energy Engineering**
Engineering Faculty, University of Pisa, Italy.
- Oct. 2019 – Oct 2021 **Master degree in Energy & Nuclear Engineering**
Alma Mater Studiorum, Engineering Department, University of Bologna. Bologna, Italy.
- Oct. 2021 – Present **Ph.D. Course “ Mechanics & Advanced Engineering sciences “**
DIMSAI , Alma Mater Studiorum, Engineering Department, University of Bologna. Bologna, (IT)
- February 2022 **1st Training School “ Fundamental Aspect on Plasma Medicine”**
Nova School of Science and Technology, FCT NOVA, Caparica, Lisbon, Portugal.
- September 2022 **1st Summer School “ Design bio-based polymers for circular economy”**
West Pomeranian University of Technology, Szczecin, Poland.
- November 2022 **State Exam for Engineer qualification**
Second Session State examinations for Engineer qualification, University of Bologna, Italy.
- July 2023 **“International Conference on phenomena in ionized gases”, ICPIG XXXV.**
Eindhoven University of technology, Egmond and Zee, The Netherlands.

Personal

Address:

Viale Aldini 220,
40136, Bologna, Italy.

Phone Number:

+ 39 3482611408

Email:

montalbettiroberto@gmail
.com

Gender:

Male

Nationality:

Italian

Languages

English



Spanish



Work Experience

- Sep. 2022 – Present **GreenMap project “ Novel green polymeric materials for medical packaging “ - Participant/Member**
Horizon project - GreenMap - “ NOVEL GREEN POLYMERIC MATERIALS FOR MEDICAL PACKAGING - ID: 872152, Szczecin (PL)
- Sep. 2022 – Present **Pulse project “ Plasma reconfigurable metasurface technologies” - Participant/Member**
Horizon project-EIC " PULSE- Plasma reconfigurable metasurface technologies" G.A. n.101099313, Bologna (IT)

- Sep. 2022 – Present **PRIN 2022 – PAA FOOD – ONFOOD – Partecipant/Member**
Alma Mater Studiorum, Università di Bologna (IT)
Related Activities: Prototyping, development, electrical and chemical characterization of new Cold Atmospheric Plasma device for large scale plasma liquids treatment.
- Dec. 2022 – Present **PRIN 2022 – Vertical Farming Sostenibile (Vfarm) - Partecipant/Member**
Alma Mater Studiorum, Università di Bologna (IT).
- May 2023 – July 2023 **Comprisetec GmbH – Early stage Researcher**
Hamburg (GE).
Related Activities: Acquire knowledge in composite materials processing and additive manufacturing, specifically in injection molding and SLA 3D printing. Collaborating with the host organization, we investigated the application of hydrophobic coatings on injection molding molds made using SLA 3D printing to reduce fractures. This research aimed to enhance the durability and performance of 3D-printed molds for injection molding processes.
- Oct. 2023 – Present **KB folie Polska Sp. Z.o.o.,- Early stage Researcher**
Warsaw (PL)
Related Activities: Acquire knowledge in bio-degradable and bio-based polymer suitable for medical packaging. Our collaborative venture with KBfolie focused on combining two distinct sealed sheets to innovate in medical packaging solutions. The first sheet comprised a paper base layered with 2, 3, or 4 coatings of polymer solution (PBA-DLA), while the second sheet consisted of PBS plastic with varying cloisite concentrations (0%, 2.5%, and 10%). After the production, we tested the packaging for the chemical characterization of the surface with Raman Spettroscopy system. We also assested mechanical test such as hot tack process.



Skills

Microsoft office	☆☆☆☆☆
Autocad - SolidWorks - CREO	☆☆☆☆
Matlab Software	☆☆☆
Phyton Software	☆☆
GraphPAD software	☆☆☆☆
3D printer Filament and SLA	☆☆☆☆