



**Riccardo
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DATE OF BIRTH:

23/11/1994

CONTACT

Nationality: Italian

Gender: Male



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EDUCATION AND TRAINING

11/2020 – CURRENT – Italy

PhD in Chemical, Environmental, Biomedical, Hydraulic And Materials Engineering

Università degli Studi di Palermo

15/09/2017 – 18/03/2020 – Italy

Master's Degree in Aerospace Engineering

Università degli Studi di Palermo

110/110 Cum Laude | Optimization of Mechanical Performances of Hybrid Joints Aluminium Alloy-Composite material

18/09/2013 – 18/07/2017 – Italy

Bachelor's Degree in Mechanical Engineering

Università degli Studi di Palermo

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
B2

Reading
B2

**Spoken
production**
B2

**Spoken
interaction**
B2

Writing
B2

DIGITAL SKILLS

Rhinoceros / ANSYS Fluent / ANSYS Mechanical / Office Suite / Moderate knowledge in MATLAB / Good usage of Excel for engineering problems

PROFESSIONAL SKILLS

Analisis and Treatments of Composite Materials and Alluminium Alloy

- Making of composite materials with polimeric matrix through hand lay up and vacuum infusion.
- Silanization of reinforced fabrics.
- Analisis on fabrics using Fourier Transform Infrared Spectroscopy (FTIR).
- Mechanical charaterization of composite materials
- Anodizing technique on aluminium alloy.
- Analisis through Elettrochemical Impedence Spettroscopy (EIS).

PUBLICATIONS

Scientific Papers

- 1) Fiore V, Di Franco F, Miranda R, Santamaria M, Badagliacco D, Valenza A. **Effects of anodizing surface treatment on the mechanical strength of aluminum alloy 5083 to fibre reinforced composites adhesive joints.** Int J Adhes Adhes 2021;108:102868.
- 2) Fiore V, Badagliacco D, Sanfilippo C, Miranda R, Valenza A. **An innovative treatment based on sodium citrate for improving the mechanical performances of flax fiber reinforced composites.** Polymers 2021.