

# Adinolfi Borea Riccardo



Modena, Italy, 08/07/1997

Via S. Stefano 28, 40125, Bologna, Italy

+39 347 0096410 | [riccardo.adinolfi.borea@gmail.com](mailto:riccardo.adinolfi.borea@gmail.com)

LinkedIn: [Riccardo Adinolfi Borea](#)

## WORKING EXPERIENCES

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### Academic Activities:

**Teaching Assistant** (Elettrotecnica) 09/2022 – present  
Dept. of Electrical, Electronic, and Information Engineering - DEI, University of Bologna

**Teaching Assistant** (Ingegneria dei Sistemi Energetici M) 09/2023 – present  
Dept. of Electrical, Electronic, and Information Engineering - DEI, University of Bologna

### Company Activities:

**ALTEN Italia** 07/22 – 10/22

## EDUCATION

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**PhD. Candidate, Università Degli Studi Di Bologna** **Bologna, Italy**  
*Photovoltaic* 11/2022 – present  
Thesis title: Optimization of the routine of bifacial photovoltaic modules with single-axis sun tracker

**Master Degree, Università Degli Studi Di Bologna** **Bologna, Italy**  
*Energetic Engineering* 09/2019 – 03/2022  
Thesis title: Experimental investigation on working parameters of a thermoelectric generator-based System  
Thesis subject: Energy harvesting from a temperature difference – Thesis Advisor: Prof. Bianchi Michele  
Final Grade: 110/110 with honors (GPA: 29.31/30)

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**Master Degree, Universidade De Coimbra***Energy for Sustainability*

Relevant courses: Energy planning for sustainable development, Renewable energy systems, Policies for energy market transformation

**Coimbra, Portugal**

01/2021 – 07/2021

**Bachelor Degree, Università Di Modena e Reggio-Emilia***Civil and Environmental Engineering, Environmental*

Thesis title: Use of distillation heads in Direct Methanol Fuel-Cells

Thesis subject: Energy harvesting from distillation wastes- Thesis Advisor: Prof. Romagnoli Marcello

Final Grade: 105/110 (GPA: 27.19/30)

**Modena, Italy**

09/2016 – 10/2019

**Diploma, I.T.I.S. Enrico Fermi***Chemical technician*

Relevant courses: Chemistry technologies, Analytical chemistry (+ lab.), Organic chemistry (+ lab.) Final Grade: 72/100

**Modena, Italy**

09/2011 – 07/2016

**SKILLS, ACTIVITIES AND INTERESTS**

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**Languages:** Italian: Native

English: Very fluent (writing, speaking, listening)

**IT Skills:** Python (decent); MS Office (Excel/PowerPoint/etc.); Matlab (decent); Arduino (decent); Thermoflex(novice); LabVIEW (novice)**Laboratory Skills:** Overall good manuality in mechanical and chemical laboratories**Driving licence:** Yes (type B)**Academic Activities:****INTERREG ADRION – ADRION TRAINEE** (Technical manager)

02/2023 – 12/2023

The ADRION TRAINEE project, funded with European funds by the Interreg ADRION Programme, aims to collect bordering states of the Ionian and Adriatic sea in order to design a master programme that is able to create new energy managers, capable of better handling energy-flows, and accelerate the decarbonizing process that society is implementing.

**OPER.CBI** (partecipant)

09/2021 – 03/2022

The OPER.CBI program, directed by Prof. Vignoli Matteo and his team, in collaboration with CERN (Geneva, Switzerland), aims to create a multidisciplinary team of students, that can work together with a company and answer to a given challenge. The program's foundations are design thinking and knowledge transfer (third mission). The challenge of my group was given by Servizi Italia s.p.a. and was "how can we make the wash-hire process more sustainable?".

Exploring/learning the facilities and the process, working both singularly and with the Servizi Italia's group, the team proposed the reuse of a waste, created inevitably during the process. After the proposal, Servizi Italia saw the opportunity and signed an NDA.

**UniBO.A.T.** (Team member)

08/2020 – 01/2021

The UniBO.A.T. program, directed by Prof. Cavina Nicolò, aims to create a sustainable boat, fuelled by sustainable energy resources, that could participate at a Yacht Club de Monaco's race (Munich, Bavaria). My sub-team worked on the Hydrogen Fuel-Cell (HFC) system, creating a characterization model that can predict the dynamic response to a variable input. To obtain the model, the group made different tests with the technology and used LabVIEW and Matlab as softwares. The Team placed first in 3/4 of the races.

Data

20/dicembre/2023

Firma

Roberto Achinolfi Boreca