



# NICOLO' F. QUATTROMINI

## ELECTRIC VEHICLE ENGINEERING STUDENT

### MAIN INTERESTS AREA

My main interests are related to the application of electrification concept to off-road machines, especially those employed in agricultural and construction equipment field, where multiple constraints need to be faced during design and testing stage.

Moreover I had also an experience as exchange student at Tampere University of Technology, improving my knowledge on non road mobile machinery and digital manufacturing, during first semester of a.y. 2022-23.

### KEY COMPETENCIES

- 2D Design & 3D Modeling with SolidWorks, Creo PTC and Siemens NX
- MatLab & Simulink Control System Design
- LaTeX for professional text editing

### CONTACT ME AT:

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## WORK SUMMARY

### Automotive Internship

Antonio Carraro S.p.A. | Mar 2023 – July 2023

Intern in [Antonio Carraro S.p.A.](#) in the context of [LIFE ATENA project](#), working on diesel tractor testing for power flow analysis, prior to electrification.

### LIBER Research group collaborator

University of Bologna DEI Department | Dec 2021 – Sept 2022

Collaboration with [LIBER – Lithium Battery for Emilia Romagna](#) research group on LCA of battery pack modules. Co-author of published [paper](#) available on MDPI Batteries.

### Vehicle Division Technician

UniBo Motorsport FSAE Team | Sept 2019 – Dec 2020

Technician of the Vehicle Division in [UniBo Motorsport](#), FSAE race team of University of Bologna. Projects followed are related to materials selection and 3D modeling & 2D drawings of SAE vehicle parts.

## ACADEMIC BACKGROUND

### Electric Vehicle Engineering MSc

Motorvehicle University of Emilia-Romagna | Sept 2021 – Present

Core exams on Advanced Electric Drives, Electric Drivelines (conceptual design of electric driveline for agricultural machine with [Antonio Carraro S.p.A.](#)) and Electric Motor Design (induction and SPM motor).

### Automation Engineering BSc

University of Bologna | Sept 2018 – Sept 2021

- Degree mark 104/110
- Experimental thesis on SPM AC motor sensorless control with Luenberger observer

### College of Merit Student

Camplus College Bononia | Sept 2018 – July 2022

I have lived in [College of Merit Camplus Bononia](#), thanks to a state scholarship, participating in technical events and other activities in the field of engineering subjects.

### Electrotechnical technic diploma

I.I.S. "G.B. Pentasuglia" | 2013 - 2018

- specialization in industrial electric systems
- participated in Smart Project Omron 2017, finished at the first place in Italy with an [automatic cycle crasher](#)

## PROJECTS & CERTIFICATIONS

- IELTS Academic certificate level C1 - band 7.5
- SolidWorks Advanced Sketching on LinkedIn Learning
- SolidWorks Sheet Metal Design on LinkedIn Learning