



FRANCESCO MARIA TIBURTINI

02/07/1997

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CONTACT INFORMATION

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LinkedIn: www.linkedin.com/in/francesco-tiburtini

Ph.D. student in Automotive Engineering for Intelligent Mobility at Alma Mater Studiorum - University of Bologna.

Education and Qualifications

Nov. 2023 – Present

Ph.D. in Automotive Engineering for Intelligent Mobility, University of Bologna

Research Topic: Integration of renewable energy generation and storage systems for sustainable mobility.

Supervisor: Prof. Mattia Ricco.

Sept. 2020 – Jul. 2023

Master's Degree in Electrical Energy Engineering, University of Bologna

Thesis Title: Implementation and validation of a cloud-based monitoring and control system for photovoltaic plants with storage.

Advisor: Dr. Vincenzo Cirimele

Supervisors: Dr. Francesco Lo Franco, Eng. Davide Pontara

Final Grade: 110/110

Sept. 2016 – Oct. 2020

Bachelor's Degree in Electrical Energy Engineering, University of Bologna

Thesis Title: Technical connection rules for photovoltaic plants in the transmission and distribution grid.

Advisor: Prof. Fabio Napolitano

Final Grade: 97/110

Sept. 2011 – Jul. 2016

Technical High School Diploma in Electronics and Electrical Engineering, I.T.T. "G. e M. Montani", Fermo (FM)

Specialization: Electrical Engineering

Final Grade: 92/100

Teaching and Work Experience

March 2024 – Present

Tutoring Activities (90 hours) at Alma Mater Studiorum – University of Bologna,

Course: Electrical Engineering T

Role: Teaching Assistant

March 2024 – September 2025

Tutoring Activities (50 hours) at Alma Mater Studiorum – University of Bologna,

Course: Photovoltaic Conversion and Electrical Energy Storage M

Role: Teaching Assistant

Publications List

Luppi, C., Tiburtini, F. M., Lo Franco, F., Cirimele, V., Apicella, V., Carambia, B., & Ricco, M. (2024). "Gradient Boosting-Based Model for Photovoltaic Power Prediction Using Local and Satellite-Based Weather Data" Electrimacs 2024 - Castelló, Castelló de la Plana, May 27-30, 2024. (in press)

Tiburtini F.M., Lo Franco F., Bazmohammadi N., Vasquez J. C. & Ricco M. (2025). "Optimal PV-BESS Sizing for Car-Sharing EV Charging Stations considering Different Electricity Prices". CPE-POWERENG 2025, Antalya, May 20-22, 2025.

Stoian A.V., Geng J., Baldisserri S., Tiburtini F.M., Ricco M. & Mandrioli R. (2025). "Performance Evaluation of DAB-Based Partial Power Processing for In-Motion-Charging Trolleybuses". CPE-POWERENG 2025, Antalya, May 20-22, 2025.

Tiburtini, F. M., Lo Franco, F., & Ricco, M. "Multi-Objective Sizing Method for PV-BESS Integration with EV Charging Stations and Analysis across Different Parking Scenarios". Batteries.

Tiburtini, F. M., Franco, F. L., Javidsharifi, M., Bazmohammadi, N., Vasquez, J. C., & Ricco, M. (2026). Photovoltaic and Battery System Sizing Optimization for Electric Car-Sharing: An Energy and Economic Assessment. IEEE Journal of Photovoltaics.

Digital Skills

- **Programming Languages:** Python, MATLAB
- **Software Platforms:** MATLAB, Simulink
- **Markup Languages:** LaTeX

Languages

- **Italian** (native)
- **English** (B2 level)

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Bologna, 20/03/2025

Francesco Maria Tiburtini

