

# Alessandro Neri

09/04/1996

Department of Industrial Engineering

Alma Mater Studiorum — University of Bologna

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## Current Position

Phd Student in Automotive Engineering for Intelligent Mobility (Cycle XXXVIII)

Department of Industrial Engineering — University of Bologna

*Research Topic: Innovative sustainable design approaches and efficient production systems for the automotive sector*

## Education

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|----------------|---|
| 2022 – Present | <b>University of Bologna</b> – Bologna, Italy<br>PhD in Automotive Engineering for Intelligent Mobility<br>Mentors: Prof. Rita Gamberini, Dr. Maria Angela Butturi. |
| 2017 – 2019    | <b>University of Modena and Reggio Emilia</b> – Reggio Emilia, Italy<br>Master's Degree in Management Engineering<br><i>Finale Grade: 110/110.</i>                  |

## Educational Activities

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| 2024 – 2025 | <b>University of Modena and Reggio Emilia</b> – Reggio Emilia, Italy<br>Teaching of “Logistics and Production Management”, Bachelor's Degree in Management Engineering – Academic Year 2024/2025 |
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## Indexed Publications

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| 2025 | Neri, A., Butturi, M. A., Tomasin Da Silva, L., Lolli, F., Gamberini, R., & Sellitto, M. A. (2025). <i>Fostering lithium-ion battery remanufacturing through Industry 5.0</i> . <b>International Journal on Interactive Design and Manufacturing (IJIDeM)</b> .<br><a href="https://doi.org/10.1007/s12008-025-02229-2">https://doi.org/10.1007/s12008-025-02229-2</a> |
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- 2025 Butturi, M. A., Neri, A., Mercalli, F., & Gamberini, R. (2025). *Sustainability-Oriented Innovation in the Textile Manufacturing Industry: Pre-Consumer Waste Recovery and Circular Patterns*. **Environments**, 12(3), Article 3. <https://doi.org/10.3390/environments12030082>
- 2024 Neri, A., Butturi, M. A., & Gamberini, R. (2024). *Sustainable management of electric vehicle battery remanufacturing: A systematic literature review and future directions*. **Journal of Manufacturing Systems**, 77, 859–874. <https://doi.org/10.1016/j.jmsy.2024.10.006>
- 2024 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2024). *Enhancing Waste-to-Energy and Hydrogen Production through Urban–Industrial Symbiosis: A Multi-Objective Optimisation Model Incorporating a Bayesian Best–Worst Method*. **Smart Cities**, 7(2), Article 2. <https://doi.org/10.3390/smartcities7020030>
- 2023 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2023). Inter-firm exchanges, distributed renewable energy generation, and battery energy storage system integration via microgrids for energy symbiosis. **Journal of Cleaner Production**, 414, 137529. <https://doi.org/10.1016/j.jclepro.2023.137529>

## Indexed Conference Proceedings

- 2024 Neri, A., Butturi, M. A., Sauer, H. L., Lolli, F., Gamberini, R., & Sellitto, M. A. (2024). *Distributed Ledger Technology selection for Digital Battery Passport: A BWM-TOPSIS approach*. **IFAC-PapersOnLine**, 58(19), 480–485. <https://doi.org/10.1016/j.ifacol.2024.09.258>
- 2024 Neri, A., Butturi, M. A., Scapinelli, A., Lolli, F., & Gamberini, R. (2024). *Renewable Energy Communities in Rural Areas: A Hybrid GIS-MCDM Approach for Agrivoltaic Systems Site Selection*. **Proceedings of the Summer School Francesco Turco**. 29th Summer School Francesco Turco. Article IN PRESS.
- 2024 Neri, A., Butturi, M. A., Bonini, F., Lolli, F., & Gamberini, R. (2024). *Blockchain-Based Carbon Emissions Tracking in Supply Chains: A Smart Contract Solution for Scope 3 Reporting*. **Proceedings of the Summer School Francesco Turco**. 29th Summer School Francesco Turco. Article IN PRESS.
- 2024 Neri, A., Butturi, M. A., da Silva, L. T., Lolli, F., Gamberini, R., & Sellitto, M. A. (2024). *Exploring Industry 5.0 for Remanufacturing of Lithium-Ion Batteries in Electric Vehicles*. **Advances in Remanufacturing**, [https://doi.org/10.1007/978-3-031-52649-7\\_5](https://doi.org/10.1007/978-3-031-52649-7_5)

- 2023 Savian, F., Tomasin Da Silva, L., Sellitto, M., Sauer Oliveira, H. L., Neri, A., & Butturi, M. A. (2023). *Green Hydrogen, Industrial Symbiosis, And Blockchain: Enhancing Sustainability And Resilience In Supply Chains*. **ECMS 2023** Proceedings Edited by Enrico Vicario, Romeo Bandinelli, Virginia Fani, Michele Mastroianni, 350–356. <https://doi.org/10.7148/2023-0350>
- 2023 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2023). *Empowering rural districts with Urban-Industrial Symbiosis: A multiobjective model for Waste-to-Energy cogeneration and hydrogen sustainable networks*. **Proceedings of the Summer School Francesco Turco**. 28th Summer School Francesco Turco.
- 2022 Coruzzolo, A. M., Rossini, S., Neri, A., Lolli, F., Gamberini, R., & Regattieri, A. (2022). *Semi-Automatic Rapid Upper Limb Assessment (RULA) with Azure Kinect of assembly and disassembly tasks, and the related learning curve*. **Proceedings of the Summer School Francesco Turco**. 27th Summer School Francesco Turco.
- 2020 Butturi, M. A., Sellitto, M. A., Lolli, F., Balugani, E., & Neri, A. (2020). *A model for renewable energy symbiosis networks in eco-industrial parks*. **IFAC-PapersOnLine**, 53(2), 13137–13142. <https://doi.org/10.1016/j.ifacol.2020.12.2504>

## Talks and tutorials

- 2024 Speaker, XXIX AIDI Summer School - Francesco Turco  
*September, 11-13 — Otranto (Italy), "Blockchain-Based Carbon Emissions Tracking in Supply Chains: A Smart Contract Solution for Scope 3 Reporting" and "Renewable Energy Communities in Rural Areas: A Hybrid GIS-MCDM Approach for Agrivoltaic Systems Site Selection"*
- 2024 Speaker, 18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2024)  
*August, 28-30 — Vienna (Austria), "Distributed Ledger Technology Selection for Digital Battery Passport: A BWM-TOPSIS Approach"*
- 2024 Speaker, Doctoral Workshop on "Advances in Manufacturing and Logistics management and control problems" (INCOM 2024)  
*August, 27 — Vienna (Austria), PhD Proposal: "Sustainable Battery Supply Chain and Resilient Energy Transition: From End-of-Life Electric Vehicle Batteries to Stationary Energy Storage Systems"*

- 2024 Speaker, Advanced Topics in Production and Systems Engineering - International Immersion  
*June, 21 — São Leopoldo, Rio Grande do Sul (Brazil, Online), Seminar title: "Exploring Industry 5.0 for remanufacturing of lithium-ion batteries in electric vehicles"*
- 2023 Speaker, VII International Workshop on Autonomous Remanufacturing  
*October, 18-19 — Caserta (Italy), "Exploring Industry 5.0 for remanufacturing of lithium-ion batteries in electric vehicles"*
- 2023 Speaker, XXVIII AIDI Summer School - Francesco Turco  
*September, 06-08 — Genova (Italy), "Empowering rural districts with Urban-Industrial Symbiosis: A multi- objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"*
- 2022 Speaker, XXVII Summer school - Francesco Turco  
*September, 07-09 — Sanremo (Italy), "Empowering rural districts with Urban-Industrial Symbiosis: A multi-objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"*

## Honors and scholarships

- 2025 ISA Doctoral Prize II Edition 20232024 (Institute of Advanced Studies, University of Bologna)  
*Research project: "Sustainable Energy Transition: Leveraging End-of-Life Electric Vehicle Batteries for Stationary Storage Systems".*
- 2024 Best Paper DIN (Department of Industrial Engineering, University of Bologna)  
*Paper title: "Inter-firm exchanges, distributed renewable energy generation, and battery energy storage system integration via microgrids for energy symbiosis".*
- 2023 Best Paper Award (XXVIII AIDI Summer School "Francesco Turco", Genova, Italy)  
*Paper Title: "Empowering rural districts with Urban- Industrial Symbiosis: A multi-objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"*
- 2019 University Management Competition 2018/2019 (CESOP HR Consulting Group)  
*Rome (Italy), 08/05/2019*