Alessandro Liotta

alessandro.liotta97@gmail.com

Education

High School Degree Sep 2012 - Jul 2017
Liceo Scientifico "Archimede", Acireale
Grade: 99/100

Bachelor's Degree in Electronic Engineering Oct 2017 - Jul 2020
University of Catania, Catania
Thesis Title: "Second-Order Bandpass Filter Implemented Through Two-Integrator Biquad Tow-Thomas Circuit"
Grade: 110/110

Master's Degree in Electronic Engineering Oct 2019 - Oct 2021
University of Pavia, Pavia
Thesis Title: "Design of an LLC Resonant DC-DC Converter with MOSFET Active Rectifier"
Grade: 110/110 Summa Cum Laude

Ph.D. in Microelectronics (XXXVII Cycle) Oct 2021 - Present
University of Pavia, Pavia
Topic: Design of a Capacitive-Inductive Multi-Channel Simultaneous Wireless Information and Power Transfer (SWIPT) System.

Teaching Activities

Experience as Tutor Present
47 hours for the "Elettronica I" course at University of Pavia (exercises at the blackboard, assistance during laboratory activities, assistance during exams)

Experience as Tutor Present
22 hours for the "Circuiti Elettrici Lineari" course at University of Pavia (exercises at the blackboard, assistance during laboratory activities, assistance during exams)

Publications

A. Liotta, G. Frattini, P. Giannelli, E. Bonizzoni and P. Malcovati, "**Design of an LLC Resonant DC-DC Converter with MOSFET-Based Active Rectifier**", 2022 17th Conference on Ph.D Research in Microelectronics and Electronics (PRIME), Villasimius, SU, Italy, 2022, pp. 245-248.

A. Liotta, E. Moisello, G. Frattini, P. Giannelli, P. Malcovati and E. Bonizzoni, "**A Novel Capacitive-Inductive Channel for Wireless Power and Data Transmission**", 2023 IEEE International Symposium on Circuits and Systems (ISCAS), Monterey, CA, USA, 2023, pp. 1-5.

Personal details

Date of birth
June 5, 1997

Driver's license
Italian License Type B

Nationality
Italian

Skills

- Cadence Virtuoso
- Matlab
- KiCad
- Ansys HFSS
- Measurement Instrumentations
- Microsoft Office Suite Programs
- LaTeX
- Windows and Linux Operative Systems

Languages

- Italian
- English

E. Moisello, **A. Liotta**, P. Malcovati and E. Bonizzoni, "**Recent Trends and Challenges in Near-Field Wireless Power Transfer Systems**", in IEEE Open Journal of the Solid-State Circuits Society.

A. Liotta, E. Moisello, G. Frattini, P. Giannelli, P. Malcovati and E. Bonizzoni, "**An S-Matrix-Based Model of a Capacitive-Inductive Channel for Wireless Power and Data Transmission**", accepted in IEEE 30th International Conference on Electronics, Circuits and Systems (ICECS), Istanbul, Turkey, 2023.