

Federico D'Aniello



EXPERIENCE

ASSISTANT PROFESSOR (RTD-A)

University of Milano Bicocca, Milan, Italy
10/2023 - present

Radiofrequency and microwave characterization and design of electronic circuits.

ANALOG DESIGNER

Melexis GmbH, Erfurt, Germany
01/2020 - 08/2023

Design of complex analog circuits in SOI technologies. Advanced analog/mix signal simulations in Cadence Virtuoso.

PHD IN PHYSICS AND ASTRONOMY

University of Milano Bicocca, Milan, Italy
10/2019 - 02/2023

Design of a Supply Line Embedded Communication transceiver for the automotive environment in SOI 180nm technology.
Design of a 2nd order compensated bandgap reference in a SOI 110nm technology.

RESEARCH FELLOW

University of Naples, Naples, Italy
11/2018 - 10/2019

PCB design of a Smart Meter system based on the STCOMET microcontroller by STMicroelectronics. Design of a discrete component self-biased energy harvester for railway diagnostic.

STUDENT INTERNSHIP

University of Nottingham, Nottingham, United Kingdom
04/2018 - 10/2018

Short-circuit aging of GaN gate-injection transistors (GITs). Study of features and advantages of wide bandgap semiconductors, short-circuit test at high voltage and temperature, high-frequency measurements, design of a Gate Driver for GaN.

CONTACT

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Milano, Italia

SUMMARY

Analog circuit design and integrated circuit layout. Proficient in using Cadence Virtuoso and Advanced Design System (ADS). Extensive laboratory experience with knowledge of many electronic measurement instruments. Capable of working effectively in international and multidisciplinary environments.

EDUCATION

Master's degree in electronic engineering

University of Naples Federico II, Naples, Italy
Thesis: Short-circuit aging of GaN gate-injection transistors (GITs).

Bachelor's degree in electronic engineering

University of Naples Federico II, Naples, Italy
Thesis: A Bayesian decision support system for logistics.

CERTIFICATION

Italian State Exam to exercise the profession of the Electronic Engineer

University Federico II of Naples, Italy,
Ordine degli Ingegneri della Provincia di Napoli.