



Riccardo Ferretti Corradi

Electronic Engineer

- 17 May 1995
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References

Luca Vincetti, DIEF, full professor, Unimore
luca.vincetti@unimore.it

Luca Ferrari, CNHi, Sensing & Innovation
luca.ferrari@cnhind.com

Stefano Lenzini, ASK, Antenna engineer
stefano.lenzini@askgroup.global

Languages

Italian Mother tongue
English Fluent written and spoken

Skills

- CST Microwave Studio
- Matlab
- EM measurement
- MS Office
- LabView
- Periodic report
- Oral presentation
- Teamwork

Education

11/2020	Information Engineer - Abilitation Exam Exit vote: 58/60	Ordine degli Ingegneri
2017-2019	Master degree in Electronics Engineering Exit vote: 101/110	DIEF, Unimore
2014-2017	Bachelor degree in Electronics Engineering Exit vote: 96/110	DIEF, Unimore
2009-2014	High school Diploma Exit vote: 98/100	Liceo Scientifico A. Tassoni

Internships

2019	Design and prototyping of microwave sensors at Sensing & Innovation in CNHi. (Six months)
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Experience

Since 2020	Research Fellow at PhEMLab (https://bit.ly/3kXVIZG) Working on electromagnetic simulation for design and testing for antennas and microwave sensors. Part of project 5G-Car (https://5g-car.it). Collaboration with Sensing & Innovation CNHi.	DIEF, Unimore
07/2015	Temporary worker on the assembly line	Glem Gas Spa

Research activities

- Dielectric Permittivity characterization. Design and prototyping of specific system to characterize dielectric permittivity of granular materials. Softwares involved: CST Microwave Studio, Matlab, LabView.
- Microwave sensor for agricultural machinery. Design and validation of microwave sensors in collaboration with CNH Industrial and field tests on the prototypes. Purpose of the sensors: to estimate position, density, humidity and electromagnetic characteristics of materials with which agricultural machinery interact.
- Design and test of antennas. Design and prototyping of planar and 3D antennas, in particular in automotive environment. Particular attention placed on the simulation side, followed by tests carried out with Network Analyzer to verify the agreement between simulations and prototypes. Collaboration with ASK Industries for EM simulation of automotive antennas considering full vehicle.

Scientific Publications

Conferences

- R. Ferretti Corradi, S. Lenzini, F. Melli, A. Notari and L. Vincetti, "3D Automotive Antenna for 5G and V2X communications," 2021 XXXIVth General Assembly and Scientific Symposium of the International Union of Radio Science (URSI GASS), 2021, pp. 1-4, doi: 10.23919/URSIGASS51995.2021.9560634.

Journals

- R. F. Corradi, F. Melli, S. Lenzini, N. Cardile and L. Vincetti, "A Capacitance PCB Sensor for Granular Material With Increased Accuracy," in IEEE Sensors Letters, vol. 5, no. 10, pp. 1-4, Oct. 2021, Art no. 1500604, doi: 10.1109/LSENS.2021.3113513.

Personal interests

Reading books, watching movies and TV series, cooking, biking and tinkering in the garage.