Carola RIZZA

02/25/1995   MODICA (RG) ITALY
Nationality: Italian

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EDUCATION

10/01/2019 - 09/30/2022 — Ph.D. in PhD

University of LIlle - Lille

Thesis: New communication paradigms based on emerging technologies

09/30/2016 - 04/16/2019 * Master's Degree in Electronic Engineering

Politecnico di Torino

Thesis: Clocking of a conductive object using graphene metamaterial in the Terahertz frequency range

The study of the cloaking of a conductive object in the terahertz frequency range is conducted. A coating of graphene vertical strips on a dielectric layer is adopted to reach the aim (mantle cloaking). To understand if the cloaking of the object is reached or not the Radar Cross Section is computed. Simulations have been run changing some parameters until the cloaking is reached and their results are shown and discussed.

Supervisors Matekovits L.

Final grade 110/110

09/11/2013 - 09/26/2016 * Bachelor's Degree in Electronic Engineering

Politecnico di Torino

Final grade 98/110

2013 — high school diploma MATURITA' SCIENTIFICA

PROFESSIONAL EXPERIENCE

10/01/2019 - 09/30/2022 — PhD student

Inria - Lille - FRANCE

Thesis project

LANGUAGE SKILLS

Mother tongue — Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English *	B2	B2	B2	B2	B2
French	B1	B2	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

Common European Framework of Reference for Languages

| 2014 | IELTS |
| 2012 | PET |

COMPUTER SKILLS

OPERATING SYSTEM	windows
PROGRAMMING LANGUAGE/CODE	C, C++, latex, simulink
PROGRAMS/SOFTWARE	matlab, spice, codeblocks, quartus II, NIOS II, modelsim, powerpoint, microsoft office, microsoft word, code composer studio
CAD	NI AWR, CST studio suite
SPREADSHEET	Microsoft excel
OTHER	VHDL, antenna design

PERSONAL SKILLS/OTHER SKILLS

The problem solving ability has been acquired during the academic years, even if it was ,already, in part present.
The teamwork ability has been acquired during the last years thanks to the team projects required by many exams.

OTHER INFORMATION

Driving license

Available to travel on business in Italy, abroad

Available to relocate in Italy, abroad

PUBLICATIONS

| 2019 | Carola Rizza, Ladislau Matekovits (2019). "Numerical Investigation on Graphene Based Mantle Cloaking of a PEC Cylinder". In IEEE |

CONFERENCES

| 10/04/2020 - 10/07/2020 | Speaker "Vehicular Technology Conference - A Millimeter-Wave Reconfigurable Intelligent Metasurface Design for Vehicular Networks Applications¿" Victoria, CANADA |

EXAMS *

Master's Degree in Electronic Engineering

conference date	Exam	Credits	Final grade
02/01/2017	Signal processing and transmission laboratory	6	27
02/10/2017	Digital Electronics	10	25
03/03/2017	Testing and certification	8	28
06/27/2017	Microwave electronics	6	30
07/03/2017	Radiating electromagnetic systems	8	30 cum laude
07/04/2017	High speed electron devices	6	30

07/05/2017	Analog and telecommunication electronics	10	24
07/12/2017	Digital Communications	6	27
02/05/2018	Communication systems	6	30 cum laude
02/07/2018	Programmable electronic systems	6	30
06/20/2018	Advanced antenna engineering	6	30
07/02/2018	Computer aided design of communication systems	6	28
07/06/2018	Innovative wireless platforms for the internet of things	6	28
04/16/2019	Thesis	30	passed

Bachelor's Degree in Electronic Engineering

conference date	Exam	Credits	Final grade
01/27/2014	Mathematical analysis I	10	20
02/04/2014	Chemistry	8	24
06/30/2014	Physics I	10	25
07/04/2014	History of Technology	6	19
07/11/2014	Geometry	10	30
09/01/2014	Computer science	8	26
10/18/2014	English Language 1st level	3	passed
01/26/2015	Physics II	8	27
01/30/2015	Introduction to electrical engineering	10	27
02/03/2015	Electronic devices	6	26
06/25/2015	Electronic circuits	10	29
07/01/2015	Mathematical analysis II	8	26
07/02/2015	Algorithms and Computers Architecture	10	22
07/09/2015	Mathematical methods for engineers	10	25
01/28/2016	Applied Electronics	10	27
02/01/2016	Electromagnetic fields	10	30
02/19/2016	Signal processing and communications	10	26
07/06/2016	Automatic control	10	22
07/11/2016	Digital systems electronics	8	19
07/11/2016	Final essay	1	19
07/18/2016	Electronic measurements	8	25
07/23/2016	Professional Training	10	passed

* *Fields marked with an * are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.*