

MATTEO COLANTONIO

Engineer

@ xxxxxxxx@gmail.com 📍 Rome, ITALY 📞 +39 xxxxxxxx 📧 xxxxxxxx
matteocolantonio 📧 xxxxxxxx

📅 16/09/1995



EXPERIENCE

Network Engineer - Optical Specialist

Consortium GARR, The Italian Research and Education Network

📅 March 2021 - Present 📍 Rome, Italy

Within a small team responsible for designing, implementing, and maintaining a nationwide optical network, my role encompassed a wide range of responsibilities and tasks. These included conducting laboratory testing, designing the network's infrastructure, overseeing infrastructure deployment, developing network programmability scripts, and conducting field trials for cutting-edge services such as Spectrum Sharing and Quantum Key Distribution.

Internship

Ericsson Research Center

📅 July 2019 📍 Pisa, Italy

- Simulation of Photonic Devices

EDUCATION

M.Sc. in Electrical Engineering (CUM LAUDE)

Eindhoven University of Technology

📅 September 2019 - August 2020 📍 Eindhoven, The Netherlands

- 2nd year of the PIXNET Erasmus Mundus Joint Master Degree
- Theory (WDM, SDM, ROADMs, transceivers, amplifiers, properties of fibers) and simulation (VPIphotonics) of optical fiber communications
- Theory, simulation (Lumerical), layout (Nazca design), fabrication, and characterization of Photonic Integrated Circuits
- Final project: "Beamforming in nanophotonic membrane integrated circuits for free-space sensing and metrology"

Master on Photonic Integrated Circuits, Sensors and Networks (30/30)

Sant'Anna School of Advanced Studies

📅 September 2018 - August 2019 📍 Pisa, Italy

- 1st year of the PIXNET Erasmus Mundus Joint Master Degree
- Optical Communications (OSA, EDFA, oscilloscope, BERT)
- Communication Networks (TCP/IP, Ethernet, RIP, OSPF, MPLS, RSVP)
- Design of Access, Metro and Core Networks (PON, SDH, OTN)
- Lab of Network Software (OpenFlow and Verilog HDL)
- Photonic Integrated Circuits
- Photonic Integrated Technologies for Si and III-V integrated circuits
- Photonics for Sensing
- Microwave Photonics

B.Sc. in Electronic Engineering (110/110 CUM LAUDE)

Sapienza University of Rome

📅 September 2014 - October 2017 📍 Rome, Italy

Thesis: "Analysis of a graphene-based leaky-wave planar antenna"

SUMMARY

He is a highly skilled engineer specializing in photonic engineering and networking. He is known for his dedication and resourcefulness. At Consortium GARR, he made significant contributions in constructing the GARR-T optical network, from design to deployment. Besides his work, he enjoys sports, traveling, and discovering new ideas and facts. Favorite book: *Sapiens* by Yuval Noah Harari; YouTube channel: *Kurzgesagt*; movie: *Begin Again*; song: *It's my life* by Bon Jovi.

CERTIFICATIONS

Cisco Certified Network Associate

Cisco Systems, Inc.

📅 10 December 2020 - 2023

IELTS 7.5

International English Language Testing System

📅 January 2018 - 2020

LabVIEW Associate Developer

National Instruments

📅 December 2016 - 2018

STRENGTHS

Dutiful Inquisitive Deliberate Photonics
Independent Networking Python

LANGUAGES

Italian - mother tongue ●●●●●
English - C1 ●●●●●
French - A1 ●●●●●

REFEREES

Dr. Massimo Carboni

@ massimo.carboni@garr.it

CTO of GARR

Prof. Piero Castoldi

@ piero.castoldi@santannapisa.it

Coordinator of the PIXNET program in the Sant'Anna School of Advanced Studies of Pisa