MATTEO CIRILLO

MSc Student in Microengineering & Quantum Science

09.10.2000 Swiss



SUMMARY

EPFL 2022 microengineering BSc with exchange at the Delft TU. Worked 6 months as a private school teacher and member of the EPFL racing team. Fulfilled military obligations in early 2023, and currently at EPFL, pursuing my masters in microengineering and quantum science.

EDUCATION

Master of Science Major in Microengine	EPFL - Swiss Federal Institute of Technology ering and Minor in Quantum Science and Engineering (GPA: 95%)	2023 - 2026
Academic Exchange Faculty of Electrical E	TU Delft - Delft University of Technology Engineering, Mathematics and Computer Science (GPA: 90%)	2021 - 2022
Bachelor of Science Major in Microengine	EPFL - Swiss Federal Institute of Technology ering (GPA: 88%)	2019 - 2022

EXPERIENCE

Summer intern, PSI – Paul Scherrer Institute Joined the Ion Trap Quantum Computing (ITQC) group and built an integrated double-pass acousto-optic modulation board, for laser frequency scanning and switching applications. The device is now used in various setups at ETH Zurich (TIQI group). Key features include: 200% size reduction, power/polarization monitoring, Euro-rack mounts, and compatibility with various AOMs and laser wavelengths.		Jul 2024 – Sep 2024
Student Engineer, Fit a package of sen	EPFL - Racing Team & Rocket Team Associations sors on an RC car to test an autonomous driving system. Applied it to the EPFL	Sep 2021 – Sep 2024

Fit a package of sensors on an RC car to test an autonomous driving system. Applied it to the EPFL Racing Team's electric racecar and passed scrutineering for international formula SAE competitions.

Designed and built a Yagi-Uda RF antenna with the help of Dr. Ismael Triviño. Later successfully recovered the telemetry of three model rockets, at a launch event of the EPFL Rocket Team. With limited prior experience, I self-studied the relevant antenna theory.

PROJECTS

Niobium Resonators,	EPFL HQC – Hybrid Quantum Circuits Laboratory
Semester project on	the fabrication of superconducting microwave resonators in niobium. Worked in
EPFL's CMi clean r	oom to optimize the manufacturing process, while learning to characterize the
	th a VNIA in a dilution arrestat. Key regults include aphanced internal quality factors

fabricated devices with a VNA in a dilution cryostat. Key results include enhanced internal quality factors, with the potential for more robust superconducting circuits for quantum applications.

OTHER ACTIVITIES

Professional/Private Tutoring	Overseeing student learning from high school to undergraduate level. This being in	
	freelance, employed by EPFL professors, and in private institutions (INPV / CVAJ).	
Volleyball Player:	Outside hitter for my local club and for the Kratos 2 nd league team during my exchange.	

CERTIFICATIONS & AWARDS

C2 Certificate in Advanced English, Cambridge University Press	2019
Prize for Excellence in Mathematics and Sciences, Nestlé Switzerland S.A.	2016

SKILLS, CERTIFICATIONS & AWARDS

French	Native Speaker	English	Bilingual Proficiency	CEFR C2
Italian	Native Speaker	German	Advanced Proficiency	CEFR B2
Skills		imulation (COMSO	L, Ansys), Prototyping (m	SEM metrology), CAD design echanical machining, 3D printing,

C2 Certificate in Advanced English, Cambridge University Press 2019 Prize for Excellence in Mathematics and Sciences, Nestlé Switzerland S.A. 2016

CONTACT INFORMATION

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LinkedIn & Portfolio website



Jul 2024 -Feb 2025