

AMIR SASANFAR

MScs student in quantum engineering | BScs computer engineering



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[LinkedIn](#)



[GitHub](#)



[Website](#)

SKILLS

PROGRAMMING

C
Python
Go
SQL

QUANTUM COMPUTING

Qiskit · PennyLane · Netsquid

OTHER TOOLS

Linux & Bash
Git
MATLAB
OpenMP · MPI · CUDA
AWS cloud services

SOFT SKILLS

Analytical Thinking
Rapid Learning
Time Management
Problem Solving

LANGUAGES

ENGLISH
IELTS ACADEMIC 8.0

ITALIAN
FULL PROFICIENCY

PROFILE SUMMARY

As a computer engineering graduate currently pursuing a Master's in Quantum Engineering, I am passionate about advancements in the field of quantum computing and its applications in industry and research. Through my academic training, I've built a strong foundation in quantum algorithms, quantum communication, and quantum cryptography, and I've gained hands-on experience using tools such as Qiskit, PennyLane, and Netsquid. I also have practical experience with high-performance computing environments and cloud-based data processing, which supports my interest in scalable quantum-classical systems. Eager to contribute to cutting-edge quantum projects, I'm actively seeking thesis opportunities and internships at the intersection of quantum technologies and real-world problem-solving.

PROFESSIONAL EXPERIENCE

DATA ENGINEER - INTERNSHIP

SEPT 2023 – JAN 2024

[Sparco](#) - IT

- Developed and optimized ETL pipelines using AWS (S3, Lambda, Quicksight, Amazon forecast)
- Designed and implemented scalable data architectures for processing large datasets

EDUCATION

MASTER'S DEGREE IN QUANTUM ENGINEERING

OCT 2023 – PRESENT

Politecnico di Torino

Current GPA: 26.2/30

Relevant courses:

- Quantum Computing, Hardware Design & Optimization, High Performance Computing
- Quantum Information, Quantum Cryptography, Quantum Communication & Networks
- Qubit Devices, Quantum metrology, sensing & Quantum photonics

BACHELOR'S DEGREE IN COMPUTER ENGINEERING

OCT 2019 – JUL 2023

Politecnico di Torino

Relevant courses:

- C programming, Object-Oriented Programming, Algorithm & Data structures, Database design
- Applied Electronics, Signal Analysis, Automatic Control, Computer Networks

OTHER ACTIVITIES

TEAM MEMBER

NOV 2024 – MAY 2025

QubiTO-Politecnico di Torino

Contributed to QubiTO, a student organization focused on quantum technologies, through educational and research activities.

A.I ENGINEER PROFESSIONAL CERTIFICATE

OCT 2023

IBM-Coursera

TEAM MEMBER

DEC 2022 – AUG 2023

BitPolito-Politecnico di Torino

BitPolito is a student organization at my university focused on education and research in the field of blockchain. My activities were focused on cryptography.