

# Davide Laureti

QUANTUM COMPUTING · ADVANCED COMPUTER ENGINEERING

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## Education

### Politecnico di Milano and Keio University

Tokyo and Milan

MSC IN QUANTUM COMPUTING AND ADVANCED COMPUTER ENGINEERING

2023 - 2026

- Double degree program, Research interests: **Minor Embedding for Quantum Annealing**
- Relevant **projects**: Iris, Tech stack: PWA with Typescript, available on PlayStore
- Recipient of Sumitomo Electric Fund **Scholarship**

### Politecnico di Milano

Rome

BSC IN ENGINEERING OF COMPUTING SYSTEMS

2020 - 2023

- Final Grade: 110/110 with honors, **top 5%**, GPA 28.9/30
- Graduation **Project**: Welcome, micro-architecture system with SOLID principles
- Tech Stack: Java Spring Data, Spock for testing, Swagger
- Relevant activities: Athens at TUDelft, Ita ICPC

## Experience

### QWorld

Full-remote

QUANTUM ANNEALING RESEARCHER

Jul 2024 - Present

- Research internship in collaboration with quantumz.io
- Researched about **quantum annealing** applications, optimization problems
- Developed QUBOs formulations of interesting optimization problems
- Implemented in **DWave** annealers using **Ocean SDK**

### Soldo Technology

Rome

SOFTWARE ENGINEER

Mar 2022 - Jul 2023

- Developed new microservices applying SOLID principles, hexagonal architecture and REST style.
- Developed microservices that are in **production** environment
- **Tech stack**: Java Spring, Spock for testing, MySQL, Docker, Kubernetes, Consul, Jenkins
- Relevant certification: **AWS SAA, Java OCD**

### E-distribuzione

Rome

SOFTWARE ENGINEER INTERN

Mar - Jul 2021

- Developed a dashboard able to manage **IoT** devices and visualize data obtained CSV file and MQTT messages
- **Tech Stack**: Angular, Docker compose, Git

## Project and Extracurricular

### Womanium 24

Online

CONTESTANT

May 2024 - Aug 2024

- Attended **classes** about Quantum Algorithms, Quantum Hardware, AI, QML for 8hr/week
- Obtained **certifications**: QBronze, QNickel, QCobalt, Quantum Algorithms Development 1 & 2 by Classiq
- Developed a group project about **QML for Conspicuity Detection** in collaboration with Fraunhofer ITWM
- Tech Stack: Qiskit, Pennylane, JAX

### CyberChallenge

Rome

STUDENT

Feb - Jun 2022

- Passed the multi-stage selection process with acceptance rate around 10%.
- Solved hands-on CTF-like challenges on software/network/web security, malware analysis, cryptography and more.
- Competed in several CTF events where I gained expertise in using penetration testing tools such as nmap, Burp, etc.

## Social Activity

### E-Tanzania23 Project at Elis

Rome

VOLUNTEER

Nov 2022 - Present

- Volunteering project for improving social condition in Tanzania by rising their technology **education**
- Worked in a **team** of 10, collaborating with NGO and Host High School
- Received over **400** laptops as a donation and started a **crowdfunding** campaign to fund the activity