

PANAGIOTIS CONSTANTINIDIS

Electrical and Computer Engineering

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📍 Chania, Greece
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EXPERIENCE

Participated in IQOQI Summer School

📅 September 2024 📍 Austria

- Gained a broad overview of current research in quantum information processing, in particular trapped ions, superconducting transmons and neutral atoms. Mainly attended lectures given by renowned scientists and visited state of the art labs.
- Also attended lectures discussing the theoretical research conducted in the field of quantum gravity.

Qiskit Global Summer School

📅 July 2023 📍 Remote

- A standard introduction to quantum information processing, focusing on milestone algorithms and fundamental concepts.
- An introduction to the superconducting paradigm of quantum computers and the notion of error appearing in such.

Participated in QHack

📅 February 2024 📍 Remote

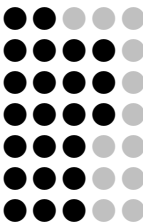
- Hybrid quantum computing hackathon organized by Pennylane.
- Completed coding challenges placing me in the top 30%.

ACHIEVEMENTS

- Secured 8.8/10 GPA after my 3rd year in ECE.
- Initiated TUC-QT, the local student group for quantum technologies under the IEEE TUC student branch.
- Participated in several workshops and hacakthons in the fields of quantum computing and software engineering, mostly remotely but in-person as well.

TOOLS

Computational physics
Numerical computing
Python
Java
C/C++
Linux
Software development tools



SOFT SKILLS

Self Motivated
Critical Thinking
Adaptability
First aid training

EDUCATION

Electrical and Computer Engineering Student

TU Crete

📅 2022 – 2027 📍 Chania, Greece

Selected coursework

- Quantum Technologies
high distinction
- Introduction to Quantum Computation
high distinction
- Quantum Information and Estimation Theory
- Data Structures and Algorithms
high distinction
- Software Development Tools and Systems
Programming
high distinction

Selected projects

- VQE applied on quantum magnetism ([GitHub](#))
- Quantum information processing with trapped ions ([GitHub](#))
- Quantum information aspects of modified Jaynes-Cummings models ([GitHub](#))
- Application of the VQE on the non linear Schrodinger equation (**LINK**)

RESEARCH INTERESTS

Digital Quantum simulations

Exploring complex models such as chemical structures, many-body systems and non-linear dynamics that are inherently challenging to simulate classically.

Variational quantum algorithms

Hardware efficient algorithms that enable quantum computers to solve real-world problems opening the way to quantum utility.

INTERESTS

- Quantum Mechanics
- Software engineering
- Statistical learning
- High Performance Computing
- Hiking
- Playing the piano

LANGUAGES

English
Greek

