



Georgios Kekkou

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Larnaca, Cyprus





RESEARCH INTERESTS

- Computer Architecture: Parallelism, Multicore, Multithreaded
- Operating Systems, Virtual Memory, Compilers
- VLSI Design & Testing




EDUCATION

- **University of Cyprus** September 2021 - May 2025
BSc, Computer Engineering Nicosia, Cyprus
 - GPA: 9.33/10.00 (Excellent)
 - Concentration area: Computer Hardware Systems and Intelligent Systems.
 - Technical Electives: Computer Architecture, CAD for VLSI, Digital Design with FPGA, Fault Tolerant Systems, Intelligent Systems, Digital Signal Processing.
- **Makarios III Lyceum of Larnaca** June 2020
Secondary Education Larnaca, Cyprus
 - Grade: 19.33/20 (Excellent)
 - Positive Sciences: Mathematics, Physics, Information Technology, Cisco Networks.

EXPERIENCE

- **Teaching Assistant** September 2025 - Present
Department of Electrical and Computer Engineering, University of Cyprus  Nicosia, Cyprus
 - Course in charge: Computer Aided Design (CAD) for VLSI.
 - Responsible for the lab sessions of the course.
 - Prepare and update lab materials including tutorials and exercises.
 - Review and mark student's assignments.
- **Research Engineer** July 2025 - Present
KIOS Research and Innovation Center of Excellence  Nicosia, Cyprus
 - Review and analyze literature on VLSI testing problems to identify relevant research directions.
 - Explore potential innovative approaches that utilize modern machine learning techniques.
 - Reproduce and validate experimental results from prior studies to establish potential gaps for further research.
 - Research Area: VLSI Testing, Machine Learning.
- **Summer Research Intern** June 2024 - July 2024
Texas A&M University  College Station, Texas, United States
 - Designed a converter tool that combines multiple serverless functions together.
 - Deployed Knative serverless functions to a Kubernetes-based cluster.
 - Apply compiler parsing ideas to design my tool.
 - Study research papers in the serverless computing domain.
- **QA Automation Engineer Intern** June 2023 - August 2023
HF Markets  Larnaca, Cyprus
 - Developed automated tests using the Selenium WebDriver to test web applications.
 - Designed customized pipelines for integration and testing using the Groovy programming language.
 - Executed and managed pipelines through the Jenkins CI/CD platform.
 - Developed automated tests for the mobile application using Selenium and Appium dedicated for Android and iOS.
 - API testing using Postman, plus integrating them in CI/CD pipelines using Newman.
 - Additional: containerization using Docker, remote testing using Selenium Grid and Zalenium, automated alerts using Python, SQL database manipulation.

PROJECTS

- **Bachelor Thesis: Predicting hard-to-detect faults using Machine Learning** September 2024 - May 2025
Tools: C++, Python, Multiprocessing, Machine Learning , VLSI Testing 
 - Developed framework for parsing digital circuit, converting to graph, and extracting structural features
 - Implemented Parallel Fault Simulation that schedules the workflow on a multicore machine
 - Constructed Graph Convolutional Network and Support Vector Machine models for classification
 - Experimented with the developed Machine Learning models to predict hard-to-detect faults
- **Texas A&M Summer Internship Project: Serverless Workflow Function Converter** June 2024 - July 2024
Tools: Python, Kubernetes (K3s), Docker, Virtual Machine 
 - Developed a compiler-based converter to convert serverless workflows
 - Set up Knative cluster inside a VM to deploy serverless functions using K3s
- **Computer Architecture Lab 5: Cache Simulator** November 2023 - December 2023
Tools: C++, Object-Oriented Programming (OOP)
 - Cache Specifications: Single Word Blocks, Variable Number of Blocks and Ways
 - Cache Organization: Direct Mapped, Set Associative, Fully Associative
 - Cache Replacement: Least Recently Used (LRU), Static Re-Reference Interval Prediction (SRRIP)
- **Computer Architecture Labs 1-4: Processor Simulator** September 2023 - December 2023
Tools: C++, Object-Oriented Programming (OOP), Parser, Implemented: ALU, Memory, Control Unit
Microarchitectures:
 - Lab 1: Single Cycle
 - Lab 2: Multi Cycle
 - Lab 3: Pipeline - Hazard Free
 - Lab 4: Pipeline - including Hazard Detection and Forwarding Units

SKILLS

- **Programming Languages:** C/C++, Python, Java
- **Programming Concepts:** OOP, Multiprocessing, Multithreading
- **Web Technologies:** HTML, CSS, JavaScript, Bootstrap, Flask
- **Database Systems:** MySQL, SQLite
- **Machine Learning:** PyTorch, Scikit-learn
- **Developer Tools:** Linux, Bash Scripting, Git, Makefile, Docker
- **Specialized Area:** Computer Architecture, VLSI Testing
- **Other Tools & Technologies:** Selenium WebDriver, CI/CD Pipelines

HONORS AND AWARDS

- **Award for Best Academic Performance in Computer Engineering** June 2025
Faculty of Engineering at the University of Cyprus
- **Award for Best Bachelor Thesis project in Computer Engineering** June 2025
Faculty of Engineering at the University of Cyprus
- **Highest GPA among Computer Engineering Students** 2021-2025
Faculty of Engineering at the University of Cyprus
- **Second Place in The 3-Minute CSR Video Challenge** April 2025
MENA Business Schools Alliance for Sustainability (MEBAS)
- **Seeds for the Future Scholarship** March 2025
Huawei Technologies (Cyprus)
- **Full Travel Grant Recipient** June 2024
uArch/ISCA 2024

- **Scholarship for Higher Education studies** 2021-2025
Panagiotis and Ellis Malli Foundation
- **Scholarship for Undergraduate Studies (IKYK)** 2021-2025
Cyprus State Scholarship Foundation
- **Achieved 1st place in Cyprus-wide Pancyprrian Examinations (Computer Engineering, UCY)** July 2020
Pancyprrian Examinations 2020

PROFESSIONAL MEMBERSHIPS

- **IEEE - Institute of Electrical and Electronics Engineers** August 2024 - Present
- **IET - Institution of Engineering and Technology** October 2022 - Present

CERTIFICATIONS

- **CS50x Introduction to Computer Science:** [View Certification](#) December 2022
- **CCNA R&S: Routing and Switching Essentials** May 2020
- **CCNA R&S: Introduction to Networks** May 2019

ADDITIONAL INFORMATION

Hobbies & Interests: Exploring computer hardware, learning about emerging technologies and fitness training.
Languages: English (proficient), Greek (native)