Alexandros **Xiarchos**

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Education

University of Patras *Patras, Greece*

Integrated MSc in Computer Engineering *2017 - 2024*

- **Teaching Assistant** in Basic & Digital Electronics Lab
- Successfully completed all lab assignment, including **Assembly**, **Microcontrollers**, **SQL**, **AI**, **Networking** and **Signal Processing**.
- Not being satisfied with the way the courses were being taught & assessed during the pandemic, I took two gap years between 2020-2022 to gain professional experience by working remotly on a full-time basis.

Experience

Teaching Assistant - Basic & Digital Electronics Lab *Patras, Greece*

University of Patras *2019 - 2020, 2022 - 2023*

- Responsible for teaching students the lab equipment's proper use.
- Answered questions and troubleshoot problems that occurred.
- Evaluated and graded students' work based on their theoretical knowledge depth, effort, and results.
- Constant communication with professors to ensure the laboratory's functionality.

Video Editor and Content Director *Remotely*

Freelance *Feb. 2019 - Present*

- Managed the content direction of over 400 projects (some of them sponsored by industry giants such as Vodafone, Adidas, VISA and LG)
- Utilizing advanced editing techniques (including scripting in Javascript), I created impressive VFX and SFX to enhance the videos' appeal.
- Developed and maintained positive relationships with clients, consistently exceeding their expectations and consequently, I became the pre-eminent choice as a YT video editor in Greece.

Awards & Qualifications

Awards

2015	**1st Place**, National Short-Film Competition: "Cyprus 1974-2014"	*Department of Education, Athens*

Qualifications

2015	**ECPE**, Certificate of Proficiency in English
2007	**ECDL**, European Computer Driving Licence - Using the Computer and Managing Files

Projects

Web Development Project *University of Patras*

HTML/CSS · Bootstrap · JavaScript · NodeJS/Express *Sep. 2023 - Present*

Multidimensional Data Structures Project *University of Patras*

Data Structures · Python · Similarity metrics · Web scraping *Jul. 2023 - Sep. 2023*

- The main goal is to compare the performance of four different data structures: **k-d trees**, **quad trees**, **range trees**, and **R-trees**. The project performs similarity queries on the indexed texts, executed using the **Locality-Sensitive Hashing (LSH)** method.
- These data structures are evaluated utilizing real datasets in various basic operations, including building, inserting, deleting, updating, and searching for different types of queries.
- Grade: 9.5/10

Knowledge Representation on the Web *University of Patras*

RegEx · XML/XSL · RDF · SPARQL *Oct. 2022 - Feb. 2023*

- Grade: 8/10

Quality Assurance Project *University of Patras*

QA Metrics · Path Testing · Fitts' Law *Oct. 2022 - Feb. 2023*

- Grade: 10/10

Compilers Project
C · FLEX · BISON

University of Patras

Feb. 2022 - Jun. 2022

- Grade: 7/10

UniLib - Software Engineering Project
SOFTWARE DESIGN · CASE DIAGRAMS · PROJECT DOCUMENTATION

University of Patras

Feb. 2021 - Jun. 2021

- Grade: 8/10

Parallel Processing Project
C · OPENMP · MPI

University of Patras

Mar. 2020 - Jun. 2020

- Grade: 7.5/10

Operating Systems Project
C · POSIX THREADS · MEMORY PAGING

University of Patras

Nov. 2019 - Feb. 2020

- Grade: 10/10

Data Structures Project
SORTING ALGORITHMS · BSTs · HASHING

University of Patras

Apr. 2019 - Jun. 2019

- Grade: 9/10

Object-Oriented Programming Project
JAVA · C++

University of Patras

May. 2018 - Jun. 2018

- Grade: 10/10

Volunteering

IEEE SB UPatras
MEDIA EDITOR

Patras, Greece

Apr. 2022 - Jul. 2022

- Co-produced and edited tech-related podcasts in the Podcast Group of the IEEE Student Branch

UP Web TV - University of Patras
VIDEOGRAPHER, EDITOR

Patras, Greece

Apr. 2018 - Mar. 2020

- Managed university's social media accounts and had an active role in reforming them to attract more viewers
- Director, editor and camera operator in "Kouzinup", a cooking show featuring uni students learning easy recipes.