

# 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 remotely 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

- Grade: 7/10

University of Patras

Feb. 2022 - Jun. 2022

## UniLib - Software Engineering Project

SOFTWARE DESIGN · CASE DIAGRAMS · PROJECT DOCUMENTATION

- Grade: 8/10

University of Patras

Feb. 2021 - Jun. 2021

## Parallel Processing Project

C · OPENMP · MPI

- Grade: 7.5/10

University of Patras

Mar. 2020 - Jun. 2020

## Operating Systems Project

C · POSIX THREADS · MEMORY PAGING

- Grade: 10/10

University of Patras

Nov. 2019 - Feb. 2020

## Data Structures Project

SORTING ALGORITHMS · BSTS · HASHING

- Grade: 9/10

University of Patras

Apr. 2019 - Jun. 2019

## Object-Oriented Programming Project

JAVA · C++

- Grade: 10/10

University of Patras

May. 2018 - Jun. 2018

## Volunteering

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### IEEE SB UPatras

MEDIA EDITOR

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

Patras, Greece

Apr. 2022 - Jul. 2022

### UP Web TV - University of Patras

VIDEOGRAPHER, EDITOR

- 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.

Patras, Greece

Apr. 2018 - Mar. 2020