**Pelopidas Georgiades**
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## WORK EXPERIENCE

**Exness – Software Engineering (Junior Python Developer)** **Jun 2023 - Aug 2023**
- Developed an abstract health-check library for Exness Partnership Platform.
- Improved knowledge on Observability, Testing, Security and OOP/OOD.
- Acquired knowledge in Agile Software Management (SCRUM).

**University Of Surrey – Software Engineering (ML Internship)** **Jul 2022 - Aug 2022**
- Developed a machine learning algorithm for wireless communications.
- Used Keras and TensorFlow to create an autoencoder to detect information over a noisy channel.

**Analog Devices – Hardware & Software Engineering (Product Application Engineer)** **Jul 2021 - Jul 2022**
- Designed PCB boards using Cadence Allegro, to demonstrate the capabilities of the automotive sensor for CES2022.
- Designed and 3D Printed a mechanism using FreeCAD, to reduce the cost of the current mechanism.
- Developed a Hamming Error Correction algorithm using C and pseudocode for the sensor's datasheet.

**University of Cyprus KOIOS Research Centre – Software Engineering (Internship)** **Jun 2017 - Aug 2017**
- Programmed drones using JavaScript and C#.
- Attended Lectures in Artificial Intelligence (AI), Machine Learning (ML), Nanomedicine – Nanotechnology.

## SKILLS

**Languages:** English (Bilingual), Greek (Native), French (Basic).
**Technologies**:
(Proficient): Python, C, C++, Git, Python, PCB design (Cadence Allegro), Free CAD.
(Familiar with): Prometheus, Grafana, Docker, Linux, Vim, Unity, MATLAB, Pandas, NumPy, Keras, TensorFlow, VHDL.

## PROJECTS

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|---|---|
| **Variational Auto-encoder Resilience** | Used Pytorch to simulate Single Event Effects of DNN on-board FPGA for space applications. |
| **UART Calculator** | Utilised Xilinx Vivado to develop UART calculator design using VHDL. |
| **Donkey-Kong** | Used Unity 2D and C# to recreate the Donkey-Kong arcade game. |
| **Brain Tumour Machine Learning** | Created a model to identify brain tumours from a given dataset of images using TensorFlow. |
| **Personal Website** | Created a portfolio website using Node Js, React, Three Js, Vim editor. |
| **Boltzmann Distribution** | Utilised python to simulate gas particle interactions in free space. |

## EDUCATION & PROFESSIONAL QUALIFICATIONS

**University of Surrey** **Sep 2019 - Present**
- MEng Electronic Engineering with Nanotechnology (with placement).
- First Year: 82.5%.
- Second Year: 88.25%.
- Third Year: 68%

**Grammar School of Nicosia A-Level Study, Cyprus** **Sep 2016 - Jul 2018**
- Overall grade: 97%.
- A-Levels: Pure Mathematics –(A*), Further Mathematics – (A), Physics – (B), Modern Greek – (A).

**First Sergeant in the Armed Forces of the Republic of Cyprus** **Jul 2018 - Sep 2019**
- Military Instructor for the new soldier series (basic training).

## AWARDS

- Ranked in the 10% of my class during the first 3 years. **Sep 2019 - Sep 2023**
- Engineers in Business Competition - Second prize (£1000) **Jun 2021**
- Surrey Electrical and Electronic Engineering (EEE) Merit Scholarship (£2000). **Sep 2019 - Sep 2020**
- High Honours during my Final Year of study in Grammar School (finished in the top five students). **Sep 2017 - Sep 2018**

## ABOUT

Enthusiastic and dedicated individual with a passion for both hardware and software development. Outside of work, I maintain an active lifestyle through regular workouts and practicing my Judo skills. This helped me develop a strong drive to excel and the ability to perform well under pressure in a competitive environment.