GIORGOS IACOVIDES

147 George Street, Flat 9, W1H 5LB, London
Tel: +44 7856 779356, Email: giorgos.iacovides20@imperial.ac.uk, LinkedIn: linkedin.com/in/giorgos-iacovides

ABOUT ME

I am an Electrical and Electronic Engineering undergraduate at Imperial College London with particular interest and experience in digital signal processing, machine learning and power electronics and power systems. I am a highly motivated individual, who is always eager to learn and enjoys being in a research environment contributing to the design and development of cutting-edge technology. My previous work experience involves working as a research assistant at two prestigious institutions, being selected to be a technical student at my country's electricity authority, tutoring over 100 STEM students and being a sergeant major during my mandatory military conscription duty. Through these, I have gained valuable skills, notably team-working, communication, resilience, leadership, and time-management.

EDUCATION

Massachusetts Institute of Technology (MIT) – Exchange student ***Sept 2023-Jun 2024***
Electrical Engineering and Computer Science
Modules Selected: Introduction to Machine Learning, Machine Learning, Introduction to Probability, Dynamic Programming and Reinforcement Learning, Quantitative Methods for Natural Language Processing

Imperial College London ***Oct 2020-Jun 2024***
MEng Electrical and Electronic Engineering

- **1st Year Grade: 85%, First Class Honours, Dean's List (Top 5% of class)**
- **2nd Year Grade: 82%, First Class Honours, Dean's List (Top 5% of class)**

Relevant Modules: Machine Learning, Deep Learning, Electrical Energy Systems, Power Electronics and Power Systems, Statistical Signal Processing and Inference, Signals and Systems, Digital Signal Processing

The English School Nicosia, Cyprus ***Sep 2012-Jun 2019***
A-Level: Mathematics (A*-594/600), Further Mathematics (A*-589/600), Physics (A*), Modern Greek (A)
AS Level: Mathematics (A), Further Mathematics (A), Physics (A), Economics (A), Modern Greek (A)
IGCSEs: 7A*, 2A

WORK EXPERIENCE

Imperial College London ***Mar 2023 – Present***
Undergraduate Researcher (6-month research placement under the supervision of Prof. Danilo Mandic)

- Employing LLM models for sentiment analysis of financial documents to be used for the construction of NLP-based bond portfolios.
- Developing a Natural Language based recommender system for financial modelling and forecasting.

Imperial College London ***Jul 2022- Sep 2022***
Undergraduate Research Assistant (UROP under the supervision of Dr. Adria Junyent-Ferre)

- Designed models using MATLAB and Simulink for the control of grid-tied DC/DC Converters and DC/AC inverters focusing on Modular Multilevel Converters (MMC) for use in VSC-HVDC applications.
- Employed several algorithms/sub-systems to improve the accuracy and robustness of the models including PID and PIR controllers, park PLL systems, PWM generation with dead-time and filtering techniques.
- Models developed will be utilised as a reference for the 'HVDC Technology and Control' module undertaken by EEE Masters' students at Imperial College London.

KIOS Research and Innovation Center of Excellence ***Jul 2021- Sep 2021***
Research Assistant

- Part of the EU-funded C-AVOID project (Grant Agreement ID:101003439) aiming to improve road safety by exploiting 5G networks to coordinate autonomous vehicles.

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- Employed signal processing techniques/algorithms such as edge detection and Kalman filtering to calculate the live distance between vehicles through perfect localization (precision of 20cm) using ArUco markers.
- Utilised extensively Python packages and libraries in OpenCV including SciPy and NumPy.

National Guard of Cyprus ***Jul 2019- Sep 2020***

Sergeant Major

- Responsible for 10 soldiers coming from diverse environments and with different qualifications.
- Planning the day-to-day activities, daily shifts, and weekly exits of soldiers from the camp.

Cyman Institute ***Sep 2019-Aug 2020***

Mathematics and Further Mathematics Tutor

- Responsible for around 120 students, helping them in the topics of A-Level Maths and Further Maths.
- Main functions included answering students' questions, solving past examination papers, and providing extra support during the exam period through solving harder unseen problems.

Cyprus Electricity Authority ***July 2018***

Technical student

- Participated in presentations analysing the ways necessary to transform the energy sector focusing on converting the grid to a "smart grid" and using renewable resources for electricity generation.
- Observed the SCADA system used for monitoring the electricity transmission and distribution and for fault detection.

TEST SCORES AND SKILLS

- SAT Subject Tests – Physics: 800/800, Mathematics Level 2: 800/800
- TOEFL iBT Test: 109/120
- **Languages**: English (fluent), Greek (native), Spanish (basic)
- **Programming Skills/Simulation Software**: C++, MATLAB, Python, Simulink, Verilog
- **Additional Software**: LaTeX, Microsoft Word, OneNote, Excel, PowerPoint
- **Relevant Hardware:** FPGA, Vector Network Analyzer (VNA), Oscilloscope, Multimeter, Arduino boards, Power Converters and Inverters

AWARDS AND ACHIEVEMENTS

- 1/1 student selected from my department for the 2023 MIT-Imperial exchange ***Jan 2023***
- Recipient of departmental funding by the Department of Electrical and Electronic Engineering of Imperial College London for my UROP internship ***July 2022***
- Included in Imperial College London Dean's List, awarded to the top 10% of the Cohort, in both the 1st and 2nd Year ***Aug 2021, Aug 2022***
- Army Honour for Outstanding Academic Achievement ***Jan 2020***
- Edexcel High Achiever Award for Highest National Mark in GCE A-Level Physics 2019 ***Nov 2019***
- Represented my country at the 60th London International Youth Science Forum ***Aug 2018***
- 5 English School Founder's Awards for Academic Excellence in Physics, Economics and Mathematics
- Ranked 4th nationally in the 'Tennis, Boys Under 16' category and was part of the national team ***Oct 2016***
- Delegate at the Mediterranean Model United Nations (MEDIMUN) ***Feb 2016***
- Duke of Edinburgh Award (Bronze and Silver) ***Sep 2014 – Jun 2016***