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| **EDUCATION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |
| **NEW YORK UNIVERSITY ABU DHABI** | *UAE | 2018 – 2022* | |
| Bachelor of Science in Electrical Engineering and Physics | |
| **NATIONAL TECHNICAL UNIVERSITY OF ATHENS** | *Greece | 2017* | |
| Accelerated program for Advanced Programming Methodologies, for preparation for the IOI. | |
| **DOUKAS SCHOOL** | *Greece | 2016-2018* | |
| International Baccalaureate Diploma program with Emphasis on Physics, Math, and Computer Science | |

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| **TECHNICAL SKILLS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
| ***Programming.***  C++, C, Java, Python, MATLAB, JavaScript, Qiskit. | ***Formatting.***  HTML, XML, CSS, PHP, LaTeX ***Software.*** SolidWorks, Fusion 360, OnShape, Geant4, COMSOL, Overleaf, Adobe CC, Eagle, Upverter, Unity, Blender, Conda, Qt, Processing, Davinci Resolve, Vernier Logger Pro, QUCS, LTspice. |***Hardware.*** Arduino, Raspberry Pi, Circuit Prototyping, 3D Printing, Laser Cutting, CNC, Machining, Waterjet Cutting |

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| **EXPERIENCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |
| **Research Assistant Astroparticle Physics Laboratory | NYUAD** | *UAE | 2018 – now* | |
| Theoretical Physics and Practical Design: *Haloscope* Dark Matter Detector (Axions, Dark Photons)   * Dark Optics Analysis for Detector design and Simulation with SolidWorks/COMSOL * Subatomic Simulations with Geant4   Engineering Design: Compact x-ray Fluorometer (XRF) for ancient artefact elemental analysis   * Analog Adjustable PID for Detector Noise Reduction with Liquid Helium | Circuit/PCB Design, Simulation, Manufacturing, Implementation. CAD/CAM Head Sensor Assembly | |
| **Research Assistant Applied Multimedia Laboratory | NYUAD** | *UAE | 2018 – now* | |
| * Applied Thermoelectric Control Optimization research using TEC. Development of optimum digital feedback control for Peltier Cells applied for Thermovibrotactile Funneling Systems * Development of vibrotactile actuation, with independent control of frequency and amplitude. Spice Resonance Simulations, Circuit Design and Development | |
| **Engineering Teaching Assistant | NYUAD ECE** | *UAE | 2019 – now* | |
| * Teaching Assistant for Programming for Engineers Course in NYUAD. Topics include C++, MATLAB, Searching, Sorting Algorithms, Data Structures, Dynamic Memory, OOP, Unity. * Duties include: Lab instruction, Recitations, Grading. | |
| **Student Council Head of Central & Eastern Europe | Microsoft** | *EU | 2016 – 2017* | |
| * Part of globally selected 12-member board for Microsoft’s Education Activities coordination. * Organized Outreach events and Competitions in Russia, Greece, Lithuania. Head Organizer of International STEM outreach conference. Coordinator of Global Student Ambassador Program. | |

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| **RESEARCH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | | | | |
| **Decentralised Bioinspired Non-Discrete Model for Autonomous Swarm Aggregation Dynamics** | | *UAE | 2018 – 2019* | | | | | |
| Algorithmic model developed based on ant movement and aggregation for applications in non-programmable swarm robotic systems. Publication to *Applied Sciences*. | | | | |
| **TEC Control System Development for Thermovibrotactile Funneling Applications** | | | | *UAE | 2018* | | | |
| Research in the psychophysical Thermovibrotactile funneling illusion. Design, Simulation, Implementation of digital active feedback control system. Publication TBA. | | | | |
| **Non-Contact Roughness Detection Methodology based on HCSR04 Ultrasonic Artefacts** | | | *UAE | 2018* | | | | |
| Machine learning was implemented to analyze artefacts of ultrasonic sensors to determine the roughness (proportional to ultrasonic scattering) of different incident materials | | | | |
| **Design, Simulation & Development of Assistive Technology for Visually Impaired People, based on Echolocation.** | *Greece | 2015 – 2016* | | | | | |
| Design of echolocation emulating vibrotactile vest for visually impaired people. Algorithm for realtime ultrasonic environment mapping was developed and applied to development of low-cost assistive device | | | | | |

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| **SECTION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |
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