



EDUCATION

- Aristotle University of Thessaloniki** Thessaloniki, Greece  
*Integrated MSc in Electrical and Computer Engineering* 2021 – 2026
- Eindhoven University of Technology** Eindhoven, The Netherlands  
*Erasmus+ Exchange Studentship – Electrical Engineering* Sept 2024 – Feb 2025

EXPERIENCE

- SpaceDot** AUTH, Thessaloniki  
*Embedded Software Engineer* Nov 2023 - Present  
Software Lead on ADCS of AcubeSAT, an open-source nanosatellite part of ESA's "Fly Your Satellite! 3" Program  
Project Goal: AcubeSAT will sustain fungal *Saccharomyces cerevisiae* cultures, in order to probe the effects of cosmic radiation and microgravity conditions in Low Earth Orbit.
  - \* Developed and tested sensor drivers used in satellites (gyroscope, magnetometer, sun sensor, etc.), while implementing industry-standard communication protocols (SPI, I<sup>2</sup>C, UART, etc.).
  - \* Developed software for ARM-based microcontrollers using the FreeRTOS operating system.
  - \* Proficient in utilizing the Conan package manager for library and dependency management.
  - \* Conducted extensive testing and operations in cleanroom environments.
  - \* Verification of C/C++ algorithms using SIL and HIL applications.Links: SpaceDot  
AcubeSAT

PROJECTS

- 8-bit Adder IC:** 8-bit Brent-Kung Adder VLSI designed on *Cadence Virtuoso* using FreePDK45 45nm technology.
- RISC-V Processor Pipeline:** Project on Digital Hardware Systems course focused on creating a functional RISC-V processor pipeline using Verilog on Quartus FPGA design software.

TECHNICAL SKILLS

- Programming:** C, C++, Python, Java, FreeRTOS
- Simulation Software:** MATLAB, Ansys STK, LTspice
- Technologies:** Conan, Docker
- Hardware Design:** Verilog, System Verilog, KiCAD, VLSI Design

LANGUAGE SKILLS

- Greek:** Native
- English:** C2 Certification – Proficiency

CONFERENCES AND SEMINARS

- ESA Academy - Concurrent Engineering Workshop 2024** ESEC-Galaxia, Transinne, Belgium  
*Communications and Data Handling* 16/09/2024 - 20/09/2024  
Participated in a Phase-0 Satellite Design Project using the Concurrent Engineering methodology, collaborating closely with industry experts.
  - \* Calculated and verified the data transmission plan to fetch data from Venus orbiter and transmit them to Earth.
  - \* Assisted in designing and validating mission requirements.Link: Workshop Details
- ECESCON Workshop Presenter** Xanthi - Thessaloniki, Greece  
*Presenter of CubeSat Hands-On Workshop* 2024 - 2025  
Presented and organized SpaceDot's CubeSat Hands-On Workshop in the National Electrical and Computer Engineering Student Conference