

KONSTANTINOS VAMVAKAS

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EDUCATION

National Technical University of Athens (NTUA)

2028 (ongoing)

Bachelor's with Integrated Masters in Electrical and Computer Engineering

Current GPA: 9.1/10 (excellent)

Arsakeia Schools In Psychiko

2022

Graduated with Honors: 19.5/20 (excellent)

TECHNICAL SKILLS

- **Programming:** C++, MATLAB
- **Electronics and Embedded Systems:** PCB design (KiCad), microcontrollers
- **Analysis and Control:** System modeling, simulation, automatic control fundamentals
- **Laboratory Skills:** Manual soldering, circuit debugging and testing

RESEARCH AND ENGINEERING EXPERIENCE

Student Research Engineer – Electric Racing Boat Team [OCEANOS](#)

School of Naval Architecture & Marine Engineering, NTUA

since 2024

- Designed and delivered multiple custom PCBs for onboard power, telemetry, control, motor pre-charge and sensor interface systems.
- Through careful component selection and robust PCB design, achieved first-pass successful deployment with zero post-fabrication failures and no hardware revisions required.
- Used KiCad for schematic capture and PCB layout, and MATLAB for system modeling and performance analysis.
- Implemented and tested C++ code for onboard microcontroller, supporting automatic control functionality and system-level vessel operation.
- Collaborated with Naval Architects and Mechanical Engineers to ensure reliable integration of electronics systems under racing conditions.

ACADEMIC PROJECTS

AM Radio Receiver Design Project

- *Designed, assembled and tested a complete AM radio receiver, including discrete component selection, manual soldering and functional verification.*
- *Gained hands-on experience in analog circuit implementation, debugging and laboratory measurements techniques.*

WORK EXPERIENCE

English Exams Invigilator – Esolnet Hellas (LRN Exams)

since 2023

- *Supervised formal examinations with strict adherence to regulations and procedures.*

LANGUAGES

- *Greek – Native*
- *English – Full Proficiency (C2, Michigan)*
- *French – Conversational (B2, DELF)*