THEODOROS TALOUMTZIS

Undergraduate Student

taloumtzistheodoros@gmail.com | +30 699 240 2818 | Kozani, Greece
Theodoros Taloumtzis | @theodorostaloumtzis

SKILLS

Programming Languages

- C/C++
- Python
- Java
- VHDL

Other Skills

- Compilers (Flex and Yacc)
- Arduino
- ESP32
- Raspberry Pi

Software & Tools

- Pytorch
- Keras
- TensorFlow
- Jupyter Notebook
- Quartus
- Questa (ModelSim)
- Visual Studio
- VS Code
- Android IDE

Operating Systems

- Linux
- Windows
- Raspberry Pi OS

Soft Skills

- Problem-Solving Ability
- Algorithmic Thinking
- Team Spirit
- Communication
- Adaptability

LANGUAGES

Greek: Native

English: Proficient

ABOUT ME

An undergraduate engineering student specializing in embedded systems and machine learning, passionate about programming. I have a particular interest in artificial intelligence, machine learning, computer vision, and robotics. Ready to apply my skills to innovative projects in these dynamic fields.

EDUCATION

Diploma in Electrical and Computer Engineering | University of Western Macedonia

10/2019 – Present | Kozani

- Relevant courses: Data Structures and Algorithms, Artificial Intelligence, Constraint Programming, Discrete Mathematics, Information Theory and Coding.
- Familiarity with programming languages: C, C++, Java, Python.

EXPERIENCE - TEAMS

Link2Dot | Internship

7/2024 – 9/2024 | Kozani

- Internship in the Research and Development (R&D) department, specializing in embedded systems.
- Participation in the lab for developing, testing, and optimizing embedded system solutions.
- Collaboration with a team of engineers to design and implement hardware and software components, conducting experiments, and analyzing data to improve system performance.
- Responsibilities include designing prototypes, debugging, and ensuring the reliability and efficiency of embedded systems for various applications.

Aerospace Research Engineering Team (ASPiRE) - Rocketry Avionics Engineer | University of Western Macedonia

11/2023 – Present | Kozani

- Designing and implementing the Telemetry System for rocket control using C, Python, and Arduino.
- Key role in designing the operating system of the rocket using Raspberry Pi.

PROJECTS

CNN Classification |

Completed

- Created a convolutional machine learning model for the classification of brain MRI images.

Heat Diffusion Simulation |

Completed

- Parallelized a serial C algorithm, with visual output using OpenGL.

Personal Operating System |

In progress

- Developing a custom operating system as a personal project, focusing on kernel design and system calls.