

Peter Sideris

peterside.gr peterside@ee.duth.gr [linkedin.com/in/peterside](https://www.linkedin.com/in/peterside)

Education

Democritus University of Thrace

Expected Graduation: February 2026

Bachelor of Science and Integrated Master's, Electrical and Computer Engineering

Notable Projects

greek_stemmer

Q2 2023

Developed an open-source Greek Stemming API in Go, based on the thesis "Development of a Stemmer for the Greek Language" by Georgios Ntais. Achieved A+ on goreportcard.com for code quality and maintainability. GitHub: [petersid2022/greek_stemmer](https://github.com/petersid2022/greek_stemmer)

duthweatherstation.azurewebsites.net

Q2 2024

Engineered an ESP32-based Weather Station, utilizing Azure App Services for hosting and storing sensor readings, while also designing a custom circuit around the microcontroller. Implemented a Go middleware to handle, process, and serve sensor readings over the Internet. GitHub: [petersid2022/duthweatherstation](https://github.com/petersid2022/duthweatherstation)

lua-bytecode-interpreter

Q4 2024

Developed an open-source Lua 5.4 bytecode interpreter in C99, built entirely from scratch. This involved reverse-engineering the luac compiler's process for dumping state, instructions, and variables into a binary bytecode format for the Lua Virtual Machine. GitHub: [petersid2022/lua-bytecode-interpreter](https://github.com/petersid2022/lua-bytecode-interpreter)

Experience

Scouts of Greece

2012 - 2021

Organized and led community service projects that promoted environmental awareness and social responsibility among youth.

ECESCON 15, Student Volunteer

Q1 2024

Volunteered at the ECESCON 15 conference, providing IT support (e.g., setting up video streaming systems) and assisting with resource management to ensure smooth operations throughout the event.

EESTEC Challenge, Hackathon, Participant

Q2 2024

Collaborated with a team to enhance an existing open-source AI model for a self-driving vehicle, completing a series of tasks to improve its functionality. GitHub: [petersid2022/eestech_challenge](https://github.com/petersid2022/eestech_challenge)

Skills

Tech Skills:

- Programming Languages: Go, C/C++ (HLS), Python (NumPy, Matplotlib), SQL, Bash, Lua
- Web Development: HTML/CSS, JavaScript (Node.js, React)
- Tools: MATLAB (Simulink), Git, Docker, (neo)vim, tmux

Soft Skills:

- Learning Mindset
- Teamwork and Communication
- Creative Problem Solving