

Peter Sideris

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Education

Democritus University of Thrace Expected Graduation: September 2026
Bachelor of Science and Integrated Master's, Electrical and Computer Engineering
Master's Thesis: *Optimizing Text Generation with Large Language Models via Speculative Sampling*
Relevant Coursework: Embedded Systems Design, VLSI Systems, High-level Synthesis for Digital IC Design, Computer Networks I-II, Data Structures & Algorithms

Experience

5G Cloud Engineer, Nokia — *Working Student* January 2025 – Present

- Develop cloud-native features in the Cloud and Network Services organization and build productivity tooling that reduces engineer toil and manual effort.
- Built *cgeany*, a C-based CLI tool integrated with CI/CD (Jenkins/GitLab) that surfaces build status and logs directly in the terminal.
 - Reduced each CI status check from ≈ 15 – 26 seconds of browser navigation to a single terminal command, cutting context switching.
 - Conservatively estimated ≈ 3 – 5 min/engineer/day (≈ 50 – 90 hours/month across a 50-engineer team).

Notable Projects

Lua 5.4 Bytecode Disassembler (C99) Oct–Dec 2024

- Implemented a Lua 5.4 binary-chunk parser and 32-bit instruction/opcode decoder; emits `luac`-style bytecode listings for compiled chunks.
- Built a debugging harness for validation: included a debug build of Lua 5.4.7 (`-ggdb, no -O2`) and scripts to step through `luac` in `gdb`. GitHub: [petersid2022/luac-bytecode-interpreter](https://github.com/petersid2022/luac-bytecode-interpreter)

duthweatherstation April – June 2024

- Built an end-to-end weather-station telemetry stack (ESP32 \rightarrow Go middleware \rightarrow MySQL \rightarrow Go/TEMPL dashboard) and deployed it on Azure App Services.
- Integrated DHT11/BMP180/MQ135 sensors; logged 2,100+ readings/day and served fast time-range queries via indexed endpoints.
- Designed and assembled a custom PCB (KiCad schematic + layout, 3D renders) and used Docker Compose for reproducible local runs. GitHub: [petersid2022/duthweatherstation](https://github.com/petersid2022/duthweatherstation)

Activities

EESTech Challenge (EESTEC) — *2nd Place* Apr–Jun 2024

- Improved a provided self-driving model using Python and transfer learning + fine-tuning, callbacks, and horizon-cropping; experimented with SLAM. GitHub: [petersid2022/eestech_challenge](https://github.com/petersid2022/eestech_challenge)

Skills

Tech Skills: C/C++ (C11, C++17), Verilog/SystemVerilog/VHDL, Go, Python, SQL, Bash, Lua, JavaScript (Node.js), MATLAB (Simulink), Linux, CI/CD, cloud-native concepts

Tools: Git, Docker, Kubernetes, OpenStack, Vivado, ModelSim, gdb, (neo)vim, tmux