

ALEXANDROS ANASTASIOU

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EXPERIENCE

DevOps Engineer – CI Focus	Ekinops (Telecom)	11/2023 - 07/2024
<i>OneOS6: Physical and virtual routers, industry networking protocols</i>		<i>Leuven, Belgium</i>
<ul style="list-style-type: none">Developed a pip-installable integration testing framework using Python, Pytest, OOP, which standardized test execution accelerating the development of new tests by 40%.Maintained and extended CI tests (Jenkins), automated tasks for building and testing processes (Gitlab & JIRA API)		
Embedded Software Engineer		11/2022 - 10/2023
<ul style="list-style-type: none">Debugged and extended network protocol solutions for routers, leveraging C, Makefile, GDB and Debian Linux.Documented a multi-core API in a multiple processors environment (multi-threading, locks and mutexes)		
Software Engineer	Nalys (Consulting)	09/2022 - 11/2022
<i>NIT: industrial-grade, 8-week, 1600-hour programme</i>		<i>Brussels, Belgium</i>
<ul style="list-style-type: none">Developed a real-time Client-Server application in Python utilizing HTTP, Makefile on an embedded system (BeagleBone). Gained exposure to Buildroot, Bootloaders, Cross-Compilation, Embedded Linux.Conducted unit and integration testing (Robot Framework, PyTest). Partially rewrote the application using C++.Developed the project's pipelines (Jenkins, Gitlab, Docker), automating the testing and deployment processes.		
Research Engineer, Intern	Toyota Motor Europe (Automotive)	10/2021 - 04/2022
<i>Advanced Powertrain: research and pre-development for powertrain systems</i>		<i>Brussels, Belgium</i>
<ul style="list-style-type: none">Developed an automated framework for sourcing and classifying IEEE papers using ML techniques (Python, NLP, Zero-Shot Classification) that self-updates visualizations (PowerBI, SQL) managing to indicate market trends.Simulated cable Electromagnetic Interference in a model car, matching the measured Harmonic Distortion (Ansys)		
Electronics Engineer	UoP Racing (Automotive)	09/2018 - 12/2019
<i>Multiple awards FSAE team: design, build, and race the first 4-motor formula car of Greece</i>		<i>Patras, Greece</i>
<ul style="list-style-type: none">Designed printed circuit boards (PCBs) from scratch for battery management system (Eagle, LTSpice, Diptrace).Automated tests (Python, Matlab), microcontroller programming (C, teensy3.2, ESP32 Wi-Fi MCU).		

EDUCATION

KU Leuven	Leuven, Belgium
<i>Advanced Master of Artificial Intelligence, Specialization in Big Data Analytics</i>	
	<i>2025</i>
University of Patras	Patras, Greece
<i>Integrated Master of Science, Electrical Engineering & Computer Science, Cum Laude</i>	
	<i>2022</i>
Thesis: "Text Statistical Analysis (NLP) and correlation with Google's Word2Vec Dictionary using FPGA"	

SKILLS

Software: Python | C/C++ | Bash | Assembly | Makefile | MatLab | SQL | Docker | Git | Linux | Scrum
Libraries: PyTorch | Tensorflow | Pytest | Numpy | Pandas | NLTK | Matplotlib | Transformers | Scikit-Learn | PowerBI
Soft Skills: Communication | Perseverance | Attention to detail | Collaboration | Coachability | Emotional intelligence
Languages: English (C2) | German (A2 → ongoing) | French (A2) | Greek (Native)

CERTIFICATIONS & PROJECTS

The World of Computer Networking: Ethernet, IP, Routing, Switching, TCP, UDP, NAT, DHCP and DNS
CS50X Harvard: Intro to C, Python, SQL and Web Design || **CS50P Harvard:** Design Patterns, decorators, regex
CS50AI Harvard: Search, uncertainty, learning, Neural Networks || **Advent of Code 2022 & 2023:** popular annual coding challenge of 25 puzzles || **Activity-Watch Project:** Developed Python tests for open-source client-server app