

Alexandros Filotheou

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github.com/li9i | scholar.google.com/alexandros-filotheou
Portfolio

Robotics engineer with 9+ years of experience in system integration, state estimation, SLAM, [localisation](#), [autonomous navigation](#), [control](#), perception, and [computer vision](#). Skilled in deploying solutions from simulation to real-world robots across [EU-funded R&D projects](#) and [volunteer initiatives](#). Proficient in ROS/ROS 2, git, Docker, and MATLAB/Octave on Linux, with strong coding expertise in [C++](#) and [Python](#). Recognised for bridging research and practical deployment to deliver reliable autonomous systems.

Skills

Languages	C/C++, Python, shell, MATLAB/Octave
Robotics/OS	Linux, ROS/ROS 2
Tools/Frameworks	git, Docker, Eigen, Behavior Trees, Gazebo, CI/CD, Qt/Tkinter, OpenCV
Control Techniques	MPC, PID, LQR

Experience

- Robotics Engineer** · ITI-CERTH, Thessaloniki GR Sep 2023 – Present
- Owner of software integration and sole git repository maintainer in EU-funded R&D project [RoBétArmé](#)
 - Designed organisation and deployed 50+ Dockerised ROS/ROS 2 packages, use case orchestration via Behaviour Trees, and supporting software across multiple real and simulated mobile robotic platforms
 - Achieved robust ROS-ROS 2 interoperability and communication across multiple machines
 - Ensured code quality, continuous integration/deployment, and coordinated collaboration
- Robotics & Control Engineer** · ECE dept., Aristotle University of Thessaloniki GR Sep 2018 – Mar 2023
- Technical robotics lead in large-scale R&D projects [RELIEF](#) and [CultureId](#)
 - Owner of system design, SW implementation, deployment of autonomous ground and aerial platforms
 - Delivered production-grade 2D/3D SLAM and navigation pipelines with intuitive user GUIs in warehouses
 - Improved RFID-tag localisation accuracy 2x through robustifying LiDAR-based filtering
 - Deployed human–mobile-robot applications at the [AMTh](#) museum, engaging 3,000+ visitors since 2023
 - Developed and integrated codebases for 18+ publications, enabling multi-team experiments and translating novel robotics and RFID research into real-world applications
- Teaching Assistant** · KTH Royal Institute of Technology, Stockholm SE Sep 2016 – Nov 2016
- DD2380 - Artificial Intelligence* under [Prof. Patric Jensfelt](#)

Links

Software packages	ros2-utils · cbgl · fsm-lo · lama-odom · pandora-hole-detection
Demos/Videos	Global Localisation · LiDAR Odometry · Multi-agent navigation · RELIEF · CultureId
Publications	[Global Localisation] · [LiDAR Odometry] · [Multi-agent navigation]

Education

Doctorate · Electrical & Computer Engineering · Aristotle University of Thessaloniki	Sep 2018 – Jun 2023
Master of Science · Systems, Control, and Robotics · KTH Royal Inst. of Technology	Sep 2015 – Jun 2017
Diploma · Electrical & Computer Engineering · Aristotle University of Thessaloniki	Sep 2005 – Jul 2013

Volunteering

- Computer Vision Engineer** · [PANDORA Robotics](#), Thessaloniki GR Oct 2013 – Jul 2014
- Enhanced robot perception by developing a [C++ wall-hole detection system](#) using Microsoft Kinect RGB-D for the international RoboCup Rescue competition, gaining 2nd place in 2015

English

Fluent — IELTS Score 8.5 (Greek native and citizen)

References

- [Antonis Dimitriou](#) · Coordinator of R&D projects · (+30) 697 88 96 350 · antodimi@auth.gr
- A complete list of professional references, including supervisors and colleagues, may be found at github.com/li9i/cv/tree/master/references