

Alexandros Filotheou

Thessaloniki, Greece | alexandros.filotheou@gmail.com | (+30) 693 8787 677 | [linkedin.com/in/alexandros-filotheou](https://www.linkedin.com/in/alexandros-filotheou)
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, in Linux, with strong coding expertise in [C++](#) and [Python](#). Recognised for bridging research and practical deployment to deliver reliable autonomous systems.

Demos/Videos [cbgl](#) · [fsm](#) · [CultureId](#) · [RELIEF](#) · [multi-mpc](#)
Example software packages [ros2-utils](#) · [cbgl](#) · [fsm-lo](#) · [lama-odom](#) · [pandora-hole-detection](#)
Example publications [\[Global Localisation\]](#) · [\[LiDAR Odometry\]](#) · [\[Multi-agent navigation\]](#)

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
- 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
- Built and integrated codebases that powered 18+ publications, enabling multi-team experiments and advancing real-world applications through novel robotics research

Teaching Assistant · KTH Royal Institute of Technology, Stockholm SE Sep 2016 – Nov 2016

- *DD2380 - Artificial Intelligence* under [Prof. Patric Jensfelt](#)

Skills

Languages C/C++, Python, shell, MATLAB/Octave
{Meta-}Operating Systems Linux, ROS 2, ROS
Tools git, Docker, Eigen, Behavior Trees, Gazebo, CI/CD, Qt / Tkinter, OpenCV
Control Techniques MPC, PID, LQR

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

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

Languages

English: Fluent — IELTS Score 8.5 (Greek Native)

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