

Alexandros Filotheou

I have 7+ years of hands-on experience that includes SLAM, [localisation](#), [autonomous navigation](#), [control](#), [Computer Vision](#), and general integration and problem-solving. These I have acquired in [real conditions with real robots](#) as well as in simulation, working for research projects funded by the European Commission and the Greek State. I have mainly used ROS and ROS 2, but also MATLAB/Octave, all the while under Linux. My primary coding language is [C++](#) and my secondary [Python](#). I hold a [diploma](#) and a [PhD](#) in Electrical and Computer Engineering and I am qualified with a [Master's degree in Control and Robotics](#). I have deliberately chosen the academic + software engineering path because I wanted to reconcile the two dominant types of engineers: the academic type whose coding boundary is MATLAB, and the software engineering type whose boundary is code. It is my pleasure to document my motivation and contributions in a clear and concise manner that acknowledges my audience's existing knowledge with regard to [code](#), [presentations](#), [technical papers](#), or [tutorials](#). Most of all I enjoy being a member of a team and solving problems.

Portfolio

Indicative software packages [cbgl](#) · [fsm-lo](#) · [PANDORA Hole Detection](#) — [github](#)
Indicative publications [\[cbgl\]](#) · [\[fsm\]](#) · [\[multi-mpc\]](#) — [google scholar](#)
Demos / videos [cbgl](#) · [fsm](#) · [cultureid](#) · [relief](#) · [multi-mpc](#)

Work Experience

2023.09 – present	Robotics Engineer Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece
2018.09 – 2023.03 [4.5Y]	Robotics and Control Engineer ECE Department, Aristotle University of Thessaloniki, Greece
2016.09 – 2016.11 [3 mo]	Teaching Assistant · DD2380 Artificial Intelligence KTH Royal Institute of Technology, Stockholm, Sweden
2011.10 – 2012.03 [6 mo]	Database Designer · Egnatia Motorway S.A., Thessaloniki, Greece
2011.03 – 2011.05 [3 mo]	Application Developer (Int) · Egnatia Motorway S.A., Thessaloniki, Greece
2008.07 – 2009.06 [1Y]	Telecommunications Engineer · OTE Group, Thessaloniki, Greece

Voluntary Experience

2013.10 – 2014.07 [10 mo]	Computer Vision Engineer , PANDORA Robotics Team ECE Department, Aristotle University of Thessaloniki, Greece
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Education

2018.09 – 2023.06	Doctorate
2005.09 – 2013.07	Diploma Electrical and Computer Engineering (ECE) Department Aristotle University of Thessaloniki, Greece
2015.09 – 2017.06	Master of Science · <i>Systems, Control, and Robotics</i> School of Electrical Engineering and Computer Science KTH Royal Institute of Technology, Stockholm, Sweden

Computer and Other Skills

Languages	C/C++, Python, shell, MATLAB/Octave, {PL/}SQL
{Meta-}Operating Systems	Linux, ROS 2, ROS
Tools	git, OpenCV, Docker, Qt (cpp) Tkinter (py), Behavior Trees, \LaTeX
Control Techniques	MPC

Languages

English	Fluent — IELTS Score 8.5 (Greek Native)
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References

Dr. Antonis Dimitriou · Coordinator of the projects for which I worked during my A.U.Th. years
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