

Alexandros Filotheou

I hold a [PhD in Robotics](#) and I am qualified with a [Master's degree in Control and Robotics](#). I have 7+ years of hands-on experience which 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. 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 enjoy documenting 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 publications: [\[1\]](#) [\[2\]](#) [\[3\]](#) — [google scholar](#)
Indicative software packages: [cbgl](#) · [fsm-lo](#) · [lama-odom](#) · [pvhd](#) — [github](#)
Demos / videos: [cbgl](#) · [fsm](#) · [cultureid](#) · [relief](#) · [mpc](#)

Work Experience

2023.09 – present	Postdoctoral Research Associate Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece
2018.09 – 2023.03	Research Engineer for NSRF projects Aristotle University of Thessaloniki, Greece
2016.09 – 2016.11	Teaching Assistant · DD2380 Artificial Intelligence KTH Royal Institute of Technology, Stockholm, Sweden
2011.10 – 2012.03	Database Designer · Egnatia Motorway S.A., Thessaloniki, Greece
2011.03 – 2011.05	Application Developer (Int) · Egnatia Motorway S.A., Thessaloniki, Greece
2008.07 – 2009.06	Telecommunications Engineer · OTE Group, Thessaloniki, Greece

Voluntary Experience

2013.10 – 2014.07	Computer Vision Engineer , PANDORA Robotics Team, Dept. of Electrical and Computer Engineering, Aristotle University of Thessaloniki
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Education

2018.09 – 2023.06	Doctorate
2005.09 – 2013.07	Diploma Department of Electrical and Computer Engineering 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, L ^A T _E X
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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