

# 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 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 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. Thank you for taking the time to read this.

## Portfolio

Indicative software packages: [cbgl](#) · [fsm-lo](#) · [lama-odom](#) · [pvhd](#) — [my github profile](#)

Indicative publications: [\[1\]](#) [\[2\]](#) [\[3\]](#) — [my google scholar profile](#)

Demos / videos: [cbgl](#) · [fsm](#) · [cultureid](#) · [relief](#) · [mpc](#)

## Work Experience

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

## Voluntary Experience

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

2018.09 – 2023.06	<b>Doctorate</b>
2005.09 – 2013.07	<b>Diploma</b> Department of Electrical and Computer Engineering Aristotle University of Thessaloniki, Greece
2015.09 – 2017.06	<b>Master of Science</b> · <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 <sup>A</sup> T <sub>E</sub> X
Control Techniques	MPC

## Languages

English    Fluent — IELTS Score 8.5    (Greek Native)

## References

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