

# Alexandros Filotheou

I have 7+ years of hands-on experience in robotics which includes SLAM, [Localisation](#), [Autonomous Navigation](#), [Control](#), [Computer Vision](#), and general integration, problem-solving, and troubleshooting. 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, or through volunteering. I am proficient in ROS and ROS 2, but also MATLAB/Octave, all the while under Linux, which has been my primary OS since 2008. 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  $\oplus$  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 theoretic boundary remains in 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 together with other people.

Indicative software packages	<a href="#">cbgl</a> · <a href="#">fsm-lo</a> · <a href="#">PANDORA</a> <a href="#">Hole Detection</a>	— <a href="#">github</a>
Indicative publications	<a href="#">[cbgl]</a> · <a href="#">[fsm]</a> · <a href="#">[multi-mpc]</a>	— <a href="#">google scholar</a>
Demos / videos	<a href="#">cbgl</a> · <a href="#">fsm</a> · <a href="#">cultureid</a> · <a href="#">relief</a> · <a href="#">multi-mpc</a>	— <a href="#">Portfolio</a>

## Work Experience

2023.09 – present	<b>Robotics Engineer</b> Center for Research and Technology Hellas (CERTH), Thessaloniki, Greece
2018.09 – 2023.03 [4.5Y]	<b>Robotics and Control Engineer</b> ECE Department, 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>Database 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 [10 mo]	<b>Computer Vision Engineer</b> , PANDORA Robotics Team ECE Department, Aristotle University of Thessaloniki, Greece
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## Education

2018.09 – 2023.06	<b>Doctorate</b>
2005.09 – 2013.07	<b>Diploma</b> Electrical and Computer Engineering (ECE) Department 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, Docker, CI/CD, Qt (cpp)   Tkinter (py), Behavior Trees, OpenCV, L <sup>A</sup> T <sub>E</sub> 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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For a complete list of references, whether they be supervisors or coworkers, visit

<https://github.com/li9i/cv/tree/master/references>