

# Dipl.-Ing (EE) Alexandros Filotheou, M.Sc.

## Personal Details

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Place and Date of Birth	Thessaloniki, Greece   8 Nov 1987
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## Education

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09.2015 – 06.2017	<b>Master of Science</b> KTH Royal Institute of Technology, Stockholm, Sweden Programme title: <i>Systems, Control and Robotics</i>  <b>Degree Project:</b> “Robust Decentralized Control of Cooperative Multi-robot Systems: An inter-constraint Receding Horizon approach” Supervisor: Prof. Dimos Dimarogonas, Department of Automatic Control, School of Electrical Engineering, KTH Royal Institute of Technology
09.2005 – 07.2013	<b>Diploma in Electrical and Computer Engineering</b> Aristotle University of Thessaloniki, Thessaloniki, Greece GPA: 7.94/10.0 Class rank: 23/280 – 92 <sup>nd</sup> percentile  <b>Diploma Thesis:</b> “Multi-label classification using Learning Classifier Systems” Supervisor: Prof. Pericles Mitkas, Dept. of Electronics and Computer Engineering, School of Electrical and Computer Engineering, Aristotle University of Thessaloniki Grade: 10.0/10.0

## Work Experience

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09.2016 – 11.2016	<b>Teaching Assistant</b> for course DD2380 – Artificial Intelligence, KTH Royal Institute of Technology, Stockholm, Sweden
10.2011 – 03.2012	<b>Database Designer, Egnatia Motorway S.A., Thessaloniki, Greece</b> Design and implementation of a unified database, suitable for the needs of the Instrumental Landslide and Geotechnical Issues monitoring system, in the context of the European Research Program IRIS.
03.2011 – 05.2011	<b>Application Developer, Internship at Egnatia Motorway S.A., Thessaloniki, Greece</b> Design, development and technical and user documentation of a system for data recovery and report-issuing from the company’s bridge register using customizable criteria. The application was developed using ORACLE developer tools.
07.2008 – 06.2009	<b>Technical Support Assistant at the Hellenic Telecommunications Organisation (OTE S.A.) Thessaloniki, Greece</b> Technical support and service of customers regarding Internet connectivity and configuration issues.

## Voluntary Work

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10.2013 – 07.2014    **Computer Vision Engineer at PANDORA Robotics Team, Robotics Lab, School of Electrical and Computer Engineering, Aristotle University of Thessaloniki**

Design of the architecture, implementation and thorough documentation of the Hole Detection system of the PANDORA robot under ROS, using RGB+Depth sensors (Microsoft Kinect and ASUS Xtion) in the context of the conditions of the international RoboCup Rescue competition.

## Publications

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A. Filotheou, A. Nikou, and D. V. Dimarogonas. Robust Decentralized Navigation of Multi-Agent Systems with Collision Avoidance and Connectivity Maintenance Using Model Predictive Controllers. *International Journal of Control*, 2018

A. Filotheou, A. Nikou, and D. V. Dimarogonas. Decentralized Control of Uncertain Multi-Agent Systems with Connectivity Maintenance and Collision Avoidance. *IEEE European Control Conference (ECC)*, 2018.

## Distinctions

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2016    Teaching Assistant, DD2380 - Artificial Intelligence,  
         under the supervision of Professor Patric Jensfelt, KTH Royal Institute of Technology, Sweden  
2013    Ranked 23<sup>rd</sup> in graduating class among 280 students who enrolled in 2005, AUTH, Greece  
2011    Top of my class in the course of Database Systems, winter semester 2010 – 2011, AUTH, Greece  
2005    Ranked 21<sup>st</sup> in entering class among 280 students who enrolled in 2005

## Computer Skills

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Languages	C/C++, Python, MATLAB, {PL/}SQL, Java, Shell Scripting, Assembly
{Meta-}Operating Systems	Linux, ROS
Graphics Applications	AutoCAD, Gimp
Tools	UML, Git, OpenCV, SCRUM, Oracle Forms / Reports, Apache HTTP Server, L <sup>A</sup> T <sub>E</sub> X, AVR studio, OpenOffice, PSpice, Microsoft {SQL Server, Visio, Project, Office}

## Languages

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English	Fluent - IELTS Score 8.5 (2014)
French	Basic Knowledge - Delf A1, A2 (2001)
Greek	Native

## Links

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code: <https://github.com/li9i>  
demos: <https://www.youtube.com/user/canhartt/videos>