



# Georgios Kouros

## AI Master Student

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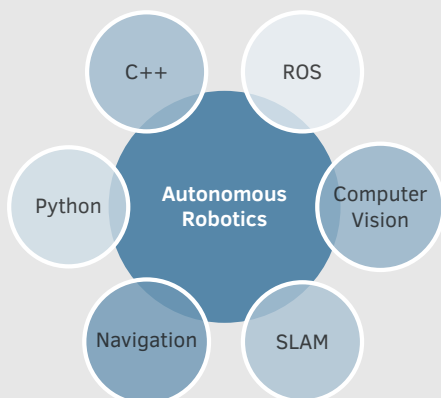
## About Me

I am an autonomous robots specialist, experienced in search-and-rescue, utility mapping and industrial robotics. I am always busy pursuing new ways to utilize artificial intelligence in order to create truly intelligent robots. Robots that add real value to society.

## Languages

- Greek
- English
- German

## Expertise



## Education

- 2020 – Now **Advanced Master of Artificial Intelligence** KU Leuven  
Track: Engineering and Computer Science (ECS)
- 2010 – 2016 **Electrical and Computer Engineering Diploma (BSc & MSc)** Aristotle University of Thessaloniki  
Specialization: Electronics and Computers, GPA: 7.84/10  
**Diploma Thesis (10/10)**  
Development of an Autonomous Robotic Ground Vehicle with a 4WS4WD Kinematic Model and Implementation of a System for Autonomous Exploration in Unknown Environments

## Experience

- 2019 – 2020 **Industry 4.0 Consultant** Kapernikov CVBA  
Worked on computer vision based forklift localization, quality testing of industrial products, and industrial operation monitoring. Also, organized a company wide knowledge-sharing workshop on ROS, Visual Odometry and Visual SLAM.
- 2017 – 2018 **Research Assistant** ITI – CETH  
Was responsible for the development of an autonomous robotic system for subsurface utility mapping as part of Project BADGER (EU Horizon 2020). Focused on the development of algorithms for autonomous navigation of a tractor-trailer UGV and autonomous subsurface mapping with a ground penetrating radar.
- 2014 – 2016 **Volunteer Robotics Engineer** Pandora Robotics Team  
As a member of a university robotics team, I had the opportunity to work on all the stages of development of an advanced autonomous UGV for search-and-rescue operations (hardware, sensor/actuator drivers, testing, simulation, control, localization, mapping, and navigation).

## Publications

- 2018 **3D Underground Mapping with a Mobile Robot and a GPR Antenna**  
*G. Kouros, E. Skartados, I. Kostavelis, D. Giakoumis and D. Tzovaras*  
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain
- 2018 **Surface/subsurface mapping with an integrated rover-GPR system: A simulation approach**  
*G. Kouros, C. Psarras, I. Kostavelis, D. Giakoumis and D. Tzovaras*  
2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots SIMPAR, Brisbane, Australia.
- 2017 **PANDORA Monstertruck: A 4WS4WD car-like robot for autonomous exploration in unknown environments**  
*G. Kouros, L. Petrou*  
12th IEEE Conference on Industrial Electronics and Applications (ICIEA), Siem Reap, Cambodia

## Awards

- 2015 **2nd Best in Class Autonomy** Pandora Robotics Team  
Robocup Rescue 2015 competition in Hefei, China
- 2015 **Excellence Award** Pandora Robotics Team  
Awarded by the Aristotle University of Thessaloniki for the Distinction in Robocup Rescue 2015 competition

## Technical Skills

- Linux
- PCL
- Git
- LaTeX
- CI/CD
- OpenCV
- Gazebo
- Keras
- Docker
- CVAT
- ROS
- Blender
- smach
- OMPL
- Jira