



# Georgios Kouros

Robotics Software Engineer

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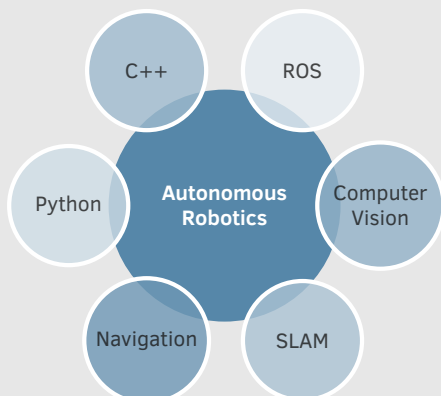
## About Me

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 and deep learning 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  
Option: Engineering and Computer Science (ECS)
- 2010 – 2016 **Electrical and Computer Engineering BSc and MSc** Aristotle University of Thessaloniki  
Option: Electronics Engineering and Computer Science  
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

## Work 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 – CERTH  
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 4WS 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

## Technical Skills

- Linux
- OpenCV
- ROS/2
- Matlab
- PCL
- Gazebo
- Blender
- Git
- Keras
- smach
- LaTeX
- Docker
- Tensorflow
- CI/CD
- CVAT
- Jira