

Nikos Koukis

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London - United Kingdom

I am a passionate Robotics/SLAM Engineer based in London. I love writing code and especially when that code comes into life in actual robots and real-life applications.

Professional Experience

05/2019 - Robotics Product Engineer - SLAMcore

01/2019 - 05/2019 Robotics Engineer - SLAMcore

09/2017 - 01/2019 Junior Robotics Engineer - SLAMcore

I work as a robotics product engineer at SLAMcore. We strive to provide robust and accurate SLAM solutions in Robotics. During my time there I have lead the integration and deployment of our software on multiple robotic platforms, and I have also worked in areas like sensor calibration, autonomous navigation, SLAM algorithms development, continuous integration as well as overall product development and deployment

02/2021 - 07/2021 Software Developer - Hellenic Army (KEPYES)

As part of my mandatory military service I maintained and implemented new features in large-scale Java and OracleSQL-based server applications. I also was the primary maintainer of legacy Linux-based servers essential for production apps. Create documentation and usage instructions for core components and tools including SVN, Git and Linux.

2017, 2018 Mentor at [Google Summer of Code \(GSoC\)](#) with MRPT

2016 Student at Google Summer of Code (GSoC) with MRPT

Developed an open source implementation of the pose-graphSLAM algorithm with loop closure capabilities ([Project link](#))

Technical Experience

MRPT 2016 **Core contributor at [Mobile Robot Programming Toolkit \(MRPT\)](#)**

MRPT is a open source robotics framework specialized in SLAM and mobile robot applications with over 300+ cites in Google Scholar, 40k+ downloads.

I am the author and maintainer of the single and multi-robot implementations of mrpt-graphslam:

- [mrpt-graphslam](#)

- **mrpt_graphslam_2d**

Languages

C++	Very experienced using modern C++ (11, 14, 17 standards) and in working with popular mathematical / computer vision and robotics libraries such as OpenCV, Eigen, MRPT, OpenGV. I have also extensively developed applications in ROS , ROS2 and have used the Gazebo and V-REP robotic simulators. <i>Sample projects:</i> MRPT , mrpt_slam , robot-concepts
Python	Expert in using either Python2 or Python3 and with using standard modules such as Numpy, Scipy, Pandas. Good knowledge of module such as argparse, click, pyyaml, mechanize. Decent knowledge of scikit-learn, Tensorflow. <i>Sample projects:</i> taskw_gcal_sync , awesome_albert_plugins , mendeley2calibre , Pump3000
Vim/Vimscript	Implemented the vim-debugstring plugin for printf-like debugging in a variety of programming languages.
Rust	I have been experimenting with Robotics/SLAM-related projects in the Rust programming language.

Excellent:	Docker/Docker-compose, Make, Bash, Modern CMake, Git, Sed/Grep/Awk
Good:	C, Fortran, Matlab
Basic:	Haskell, Awk, Java, Ansible, Django, Grafana

Software:	MRPT, ROS, ROS2, Gazebo, V-REP, Matlab, Fusion360, Solidworks, Grafana
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Education

2011 - 2017	5yr Diploma in Mechanical Engineering National Technical University of Athens (Athens, Greece) <i>Master Thesis:</i> Design and Development of Single and Multi-Robot Simultaneous Localization and Mapping (SLAM) Algorithms 8.4/10.0
2015	ERASMUS Studies KTH Royal Institute of Technology (Stockholm, Sweden) I studied for a semester in the department of <i>Engineering Science</i> where I undertook projects in advanced control theory, digital control, optimal control, and embedded systems for applications in robotics and aircraft control systems
2013 -	Coursera/Udacity/EdX courses I have successfully completed more than 10 courses in various MOOC platforms

including **Udacity - Artificial Intelligence for Robotics**, **Udacity - Control of Mobile Robots**, **Coursera - Computer Networks**.

Supplementary

- Penetration Testing Enthusiast
- Languages:
 - Greek (native speaker)
 - English
 - German (basic)
 - Spanish (basic)
- **2014:** 4th place in **EBEC** competition final round
- **2004:** Avlonarion chess tournament champion