

Michail Papadakis

Athens 11146, Greece • [E-mail](#) • [LinkedIn](#) • [Github](#)

EDUCATION

- 09/2018 - 07/2024 **National Technical University of Athens (NTUA)**, Athens, Greece
- Integrated Master in Mechanical Engineering (5-year degree; 300 ECTS)
 - Grade: 8.89/10 “Very Good” (top 5%)
 - Thesis: “Modelling and in-flight torso attitude stabilization of a jumping quadruped” (Grade 10/10)
 - Supervisors: Prof. Kostas Alexis, Prof. Ioannis Poulakakis
- 09/2012 - 06/2018 Saint Joseph High School, Athens, Greece (Grade: 20/20 “Distinction”)

PROFESSIONAL EXPERIENCE

- 03/2022 - 12/2024 **Junior Robotics Engineer**, iKnowHow.S.A., Greece
- Developed software for a robotic welding platform utilizing ROS2 and MoveIt2 and conducted welding tests
 - Integrated sensors (3D scanner, seam tracker) and an AR interface, and deployed ML models using REST API
- 03/2022 - 12/2024 **Private Tutor**, High school mathematics and physics, Greece
- 04/2024 - 07/2024 **Undergraduate Researcher**, Norwegian University of Science and Technology (NTNU), Trondheim, Norway
- Conducted the experimental part of my thesis at the Autonomous Robots Lab (ARL)
- 09/2022 - 08/2023 **Undergraduate Researcher**, Control Systems Lab - NTUA, Greece
- Developed a simulation and control framework for a prototype robotic leg using C++, ROS and Gazebo
 - Verified the framework using comparisons with MATLAB Simscape models and analytical calculations
- 07/2022 - 09/2022 **Internship**, Foundation for Research and Technology - Hellas (FORTH), Greece
- Research Intern in the Computer Vision and Robotics Laboratory (CVRL)
 - Designed a modular underwater robotic worm using Solidworks and manufactured a 3D printed prototype
 - Programmed microcontrollers (Arduino, Raspberry Pi) for motion control and sensor data collection

PUBLICATIONS

- M. Papadakis, J. A. Olsen, I. Poulakakis, and K. Alexis, "Modeling and In-flight Torso Attitude Stabilization of a Jumping Quadruped", International Symposium of Robotics Research, California, USA, 8-12 December 2024 [[PDF](#)][[Site](#)][[Video](#)]

HONORS & AWARDS

- **Full-Tuition High School Scholarship**, Saint Joseph School 2012-2018
- **Scholarship**, National Scholarships Foundation, for diligent students from vulnerable social groups, 2021

SKILLS

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|--------------------------------|--|
| • Robotics Software | Matlab, Simulink, ROS, ROS2, Gazebo, Drake, MoveIt, Acados |
| • Programming | C/C++, Python, Ubuntu, Github, CMake, FastAPI |
| • Mechanical Engineering Tools | Solidworks, Ansys Mechanical & Fluent, 3D printing |

PARTICIPATIONS

- 01/2024 - 09/2024 **Robotics Engineer**, Beyond Robotics – Student Team, Greece
- Developed and implemented software for motion control of a 6-DOF robotic arm in ROS using MoveIt
 - Participated in the European Rover Challenge 2024 (ERC 2024), placing 9th out of 27 teams

LANGUAGES & TEST SCORES

- **English** (fluent), **French** (basic), **Greek** (native)
- **GRE**: 170/170 Quantitative Reasoning, 158/170 Verbal Reasoning, 4/6 Analytical Writing