

Georgii A. Kurshakov

Robotics & Mechatronics Engineer

Education

- 2022–... **Ph.D.**, *University of Genoa*, Genoa.
Computer Science & System Engineering: Industrial PhD (with Gter s.r.l.)
- 2020–2022 **M.Sc.Eng.**, *University of Genoa & Keio University*, Genoa & Yokohama,
GPA: 100/100.
JEMARO Double Degree Master's Program in Advanced Robotics
- 2016–2020 **B.Sc.Eng., Hons.**, *St. Petersburg Polytechnic University*, St. Petersburg,
GPA: 4.97/5.0.
Mechatronics and Robotics – Autonomous Robots

Projects

- 2023 **REMOT**, *with Gter s.r.l., financed by EUSPA*.
Development of a wearable device based on geospatial and inertial navigation, for high-precision tracking of the human body movement kinematics.
- 2022 **Dexterous tendon-driven robotic hand**, *Master's thesis*.
Comprehensive design of a robotic hand with tendon driven fingers, including mechanical design, circuitry, control algorithms and software.
- 2021 **Remote physiotherapy smartphone application**, *Course project*.
Design of a system for doing physiotherapy remotely with the doctor's feedback. Includes a smartphone app, hardware, and a business model. Leader of the project team.
- 2020 **Surround view system for a mobile robot**, *Bachelor's thesis*.
Development of a mobile robot computer vision system with automatic camera calibration and image stitching (C++, OpenCV).

Work

- 2023 **Teaching Assistant**, *University of Genoa*.
Modelling & Control of Manipulators; Robot Dynamics & Control.
- 2016-2022 **Tutor**, *Self-employed*.
High school tutor in Mathematics and Physics, university tutor in Theoretical Mechanics, Theory of Mechanisms & Machines.

2019-2020 **Robotics Engineering Intern**, *Russian State Scientific Center for Robotics and Technical Cybernetics*.

Research support: Design of mathematical models as a part of team working on a rescue mobile robot for extreme environment.

2019-2021 **Translator/Interpreter**, *Marine Propulsion Systems, Ltd.*

Written and oral English-Russian translation of technical documentation and negotiations in a company dealing with diesel ship engines.

Professional Skills

Engineering Mechanical, Electronics, Control Systems
Software Solidworks, Creo, Altium Designer, Simulink
Programming C/C++, Matlab, Python, ROS, OpenCV, Git

Personal Skills

- Quick learner.
- Leadership and responsibility.
- Multitasking.
- Good at explaining and presenting.
- Easily adaptable.
- Talent for languages.

Languages

English	Proficient	<i>IELTS 8.0</i>
Russian	Native	
Italian	Upper Intermediate	<i>Conversationally fluent</i>
Japanese	Intermediate	

Research & Development Interests

- Robotics
- Mechanical Design
- Product Optimization
- Automation
- Control Engineering
- Embedded Systems

Reference

Name Dr. Fulvio Mastrogiovanni
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