

# RICCARDO PERIOTTO

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## SUMMARY

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Software Engineer in robotics, combining strong foundations in Computer Science and Autonomous Systems with hands-on experience. Currently applying my skills to real-world robotics challenges in industrial automation.

## SKILLS

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<b>Programming</b>	C, C++, C#, Python, TypeScript, Java, R, Algorithms & Data Structures, OOP, .NET Framework, Django, React.js, Vue.js, Docker & Microservices, DDS, gRPC, MQTT, Unity, Git, CI/CD, HTML5, CSS, SQL & NoSQL
<b>Mechatronics</b>	ROS 2, Robotics, Automatic Control, Dynamic Modeling, Motion Planning, Sensor Fusion, SLAM, Gazebo, ArduPilot, Industry 4.0
<b>AI &amp; Modeling</b>	JAX, PyTorch, TensorFlow, Machine Learning, Deep Learning, Reinforcement Learning, Unsupervised Learning, Probabilistic Methods, Bayesian Networks, MATLAB, Simulink, Maple

## EXPERIENCE

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<b>Software Engineer for Robotics</b> Agile Robots SE	Dec 2023 - Ongoing <i>Munich, Germany</i>
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- Develop backend and frontend features for [AgileCore](#), enabling faster deployment of automation solutions.
- Apply robotics expertise to cross-team integration, ensuring smooth interaction between software and hardware.

<b>Research Intern</b> Ericsson	Jan 2023 - Jul 2023 <i>Stockholm, Sweden</i>
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- Designed an optimization-based control algorithm for teleoperation, accounting for network delays and physical obstacles. Validation in simulation and hardware with 100% adherence to safety constraints.
- Built the project as the basis for my master's thesis, resulting in a first-author paper at ECC. [Thesis](#), [Paper](#)

<b>Software Engineer</b> BM Group Polytec S.p.A.	Jan 2021 - Sep 2021 <i>Trentino, Italy</i>
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- Developed cloud-based solutions for industrial plant automation, enhancing system monitoring and control (see video for one project), and grew interested in autonomous systems. [Video](#)

## EDUCATION

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<b>MSc in Autonomous Systems</b> , EIT Digital First year: University of Trento (UniTN), Second year: Royal Institute of Technology (KTH) Focus on robotics and AI, with additional studies in entrepreneurship and business.	2023 - 2024
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<b>BSc in Computer Science</b> , University of Trento Main subjects: Algorithms, Software Engineering    Grade: 110/110 with honours	Sep 2017 - Jul 2020
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<b>High School Diploma in Computer Science</b> , ITT Marconi Rovereto Main subjects: Programming, Network Systems    Grade: 100/100 with honours	Sep 2014 - Jul 2017
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## ADDITIONAL INFORMATION

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**Projects:** I share some of the main projects I built or contributed to on [GitHub](#). Feel free to check them out.

**Languages:** Italian (native), English (full professional proficiency), German (intermediate).

**Other:** Full driving license (Category B) and own car. Precise and meticulous. Passionate about sports (running, climbing, snowboarding, and recently surfing).