RICCARDO PERIOTTO

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SUMMARY

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

Programming	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
Mechatronics	ROS 2, Robotics, Automatic Control, Dynamic Modeling, Motion Planning, Sensor Fusion, SLAM, Gazebo, ArduPilot, Industry 4.0
AI & Modeling	JAX, PyTorch, TensorFlow, Machine Learning, Deep Learning, Reinforcement Learning, Unsupervised Learning, Probabilistic Methods, Bayesian Networks, MATLAB, Simulink, Maple

EXPERIENCE

Software Engineer for Robotics Dec 2023 - Ongoing
Agile Robots SE *Munich, Germany*

- 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.

Research Intern Jan 2023 - Jul 2023
Ericsson *Stockholm, Sweden*

- 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

Software Engineer Jan 2021 - Sep 2021
BM Group Polytec S.p.A. *Trentino, Italy*

- 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

MSc in Autonomous Systems, EIT Digital 2023 - 2024
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.

BSc in Computer Science, University of Trento Sep 2017 - Jul 2020
Main subjects: Algorithms, Software Engineering   Grade: 110/110 with honours

High School Diploma in Computer Science, ITT Marconi Rovereto Sep 2014 - Jul 2017
Main subjects: Programming, Network Systems   Grade: 100/100 with honours

ADDITIONAL INFORMATION

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).