Risto Ojala

27-year-old, recently graduated DSc (Tech) from Aalto mechatronics research group. Currently continuing as a post-doctoral researcher. Passionate about developing novel technological solutions for intelligent machines and robots. Especially interested in sensing and perception technologies.

Automated driving · Computer vision · Mobile robotics · Machine learning · Robotic sensing

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Links

Blog

GitHub

Google Scholar

ResearchGate

LinkedIn

Languages

Finnish	Native
English	● ● ● ●
Swedish	● ● ○ ○
German	● ○ ○ ○

Degrees

2023	**Doctor of Science (Technology)**, **Aalto University** *Mechanical Engineering (Mechatronics)*
2021	**Master of Science (Technology)**, **Aalto University** *Mechanical Engineering (Mechatronics)*
2019	**Bachelor of Science (Technology)**, **Aalto University** *Mechanical Engineering (Mechatronics)*

Work Experience

10/2023-	**Robot Software Developer** *Mekanio Oy* Part-time development work with industrial robots and related components. Software solutions for integration and communication of different sub-modules.
9/2023-	**Postdoctoral Researcher** *Aalto University, Mechatronics research group* Leading a sub-group of researchers on topics related to automated driving and mobile robotics. Personal research on computer vision. Participation in several national and international research projects.
7/2021-8/2023	**Doctoral Researcher** *Aalto University, Mechatronics research group* Doctoral thesis on computer vision solutions in intelligent transportation. Simultaneously, I collaborated with several other researchers on computer vision and mobile robotics topics, and participated in different projects. Teaching duties related to mobile robotics.
6/2021-8/2021	**Chief Technology Officer** *AIVisionEye Oy* Brief stint kicking off a start-up company based on research project outputs. Main responsibility was acquiring and training new personnel for technical development.
5/2018-6/2021	**Research Assistant** *Aalto University, Mechatronics research group* Part-time/full-time research duties related to computer vision in intelligent transportation. Developing and building laboratory equipment and measurement setups. Collaborating with other researchers and participating in project work.
6/2017-8/2017	**CAD Designer** *Northdrill Oy* Designing, modelling, and drawing parts and assemblies. Ordering components based on designs. Participated in several development processes from design to manufacturing.

Programming & Software

Python	● ● ● ●
C, C++	● ● ● ○
R	● ● ○ ○
MATLAB	● ● ● ○
ROS	● ● ● ○
OpenCV	● ● ● ●

PyTorch	● ● ● ○
Scikit-learn	● ● ● ○
Azure	● ○ ○ ○
Linux	● ● ● ○
CAD	● ● ● ○

Awards, Honours & Others

2023	DSc thesis scholarship, Technology Industries of Finland
2023	Speaker at IEEE Finland Smart Mobility and Robotics seminar
2022	DSc studies scholarship, Yrjö and Senja Koivunen's Foundation
2021	Master thesis award, IFToMM Finland
2021	3rd place (presentation), SATL Engineering Gala
2020	Best student journal paper award, IEEE Finland Section
2020	MSc studies scholarship, Yrjö and Senja Koivunen's Foundation
2019	Young professional award (speaker), International Event on Driving Science
2019	2nd place (autonomous mobile robot), Amazing Robots Competition