Jan Härkönen

Curriculum vitae 2.7.2024

Personal info

Full name	<u>Jan</u> Robert Härkönen
Address	Hyväntoivonkatu 8 A 20, 00220 Helsinki, Finland
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Education

2018-2020	**Master's degree**, *Aalto University, School of Science*, Otaniemi, Finland. Major: mathematics, minor: engineering physics
2016-2017	**Exchange studies**, *Korea Advanced Institute of Science and Technology (KAIST), School of Computing*, Daejeon, Korea.
2014-2018	**Bachelor's degree**, *Aalto-university, School of Science*, Otaniemi, Finland. Major: engineering physics and mathematics, minor: electronics and electrical engineering, computer science
2013-2014	**Compulsory military service**, *Signals Regiment*, Riihimäki, Finland. Reserve officer, rank Second lieutenant

Employment history

Jan 2021 - present	**Software Developer/Engineer**, *Polycon Oy*, Leppävaara, Finland. Developing and maintaining software and databases for handling mobility aid items for Finnish hospital districts.
Feb-Sep 2020	**Software Developer**, *Semantum Oy*, Otaniemi, Finland. Developing LCA dashboard for assessing environmental impact of factory processes.
Jun-Nov 2019	**Research assistant**, *Aalto-university, Department of Applied Physics, Antimatter and Nuclear Engineering group*, Otaniemi, Finland. Simulating and calculating the annihilating electron-positron pair momentum density in a solid in the atomic scale using quantum Monte Carlo methods (Master's thesis).

Summer 2018	**Research assistant**, *Aalto-university, Department of Applied Physics, Antimatter and Nuclear Engineering group*, Otaniemi, Finland.
	Simulating and calculating the enhancement factor in a semiconductor in the atomic scale using quantum Monte Carlo methods.
Summer 2017	**Research assistant**, *Aalto-university, Department of Mathematics and Systems analysis*, Otaniemi, Finland.
	Writing bachelor's thesis on the spherical maximal function.
Summer 2016	**Trainee**, *CERN, Helsinki Institute of Physics , CMS Phase 1 Pixel Upgrade*, Meyrin, Switzerland.
	CMS silicon pixel detector module testing, design of beam telescope for modules.
Summer 2015	**Trainee**, *Netel Oy, Lemcon Networks Nordic*, Järfälla, Sweden.
	Mobile phone network project progress tracking, creation of telecom network database, material delivery/logistics

Positions of trust

2021-present	Polytech Choir (board member) - Treasurer 2021-2022 - President 2023-2024
2019	Guild of Physics (board member) - International Captain

Languages

English	**Excellent**
Finnish	**Mother tongue**
French	**Mother tongue**
Swedish	**Good**
Portuguese	**Basics**

IT skills

Programming	Delphi (excellent), Python (excellent), C/C++ (good), Fortran (good), Java (good)
Software	Matlab (excellent), R (good), Android studio (good), MS office (good), LaTeX (good)
Others	SQL (good), HTML (basics), 3D-modelling (basics)

Hobbies

- Choir, swimming, badminton, chess