



Jan Härkönen

Curriculum vitae 2.10.2024

Personal info

Full name Jan Robert Härkönen
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Employment history

- Jan 2021 - **Software Developer**, *Polycon Oy*, Leppävaara, Finland.
present Developing and maintaining software and databases for handling mobility aid items for Finnish hospital districts.
- Feb-Sep 2020 **Software Developer / Data Analyst**, *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

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

Positions of trust

- 2021-2024 Polytech Choir (board member) - Treasurer 21-22 - President 23-24
2019 Guild of Physics (board member) - International Captain

Programming skills

Languages Python, Delphi, SQL, Java, Fortran, Typescript
Tools React, LaTeX, Git, MS office
Data analysis Matlab, R, Pandas, Numpy

Languages

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

Hobbies

- Choir, swimming, badminton, chess