

# Miro Palmu – CV

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<b>Website</b>	miropalmu.cc	<b>Nationality</b>	Finnish
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## Personal Profile

I'm a motivated physics student with a focus in programming, simulations and high performance computing. Other intrests are GPU computing and technical details of C++.

## Education

- 2020–** Bachelor of Science: physics, University of Helsinki  
Average grade of 4.97 out of 5 (195 ECTS)  
Theoretical physics as major and computer science as minor.
- 2023** The CSC Summer School in High Performance Computing

## Employment History

- Summer 2023** CSC – IT CENTER FOR SCIENCE LTD.  
*Trainee*  
Preparing work for team Norppa in IndySCC HPC student competition and writing internal documentation for SYCL and oneAPI SYCLomatic.
- 2022 – 2023** University of Helsinki  
*Part-time research assistant*  
Optimizing ionosphere potential solver of Vlasiator in space physics research group by porting it to CUDA.
- Summer 2022** University of Helsinki  
*Research assistant*  
Data analysis of data from Vlasiator simulation in space physics research group.
- 2022** Aalto University and University of Helsinki  
*Teaching assistant*  
Two physics courses in Aalto and one in University of Helsinki.

## Competitions

- 2nd place** Indy Student Cluster Competition 2023  
*Member of team Kuutti (CSC).*  
I was sysadmin in the team and responsible for writing Ansible script to automate our cluster setup ([github.com/MiroPalmu/kuutti](https://github.com/MiroPalmu/kuutti)).

## Positios of Trust

- 2022** Resonanssi Ry  
*Secretary*  
Secretary and member of the board at Resonanssi ry, which is a organization for students of the physical sciences at the University of Helsinki.

## Technical skills overview

Strong knowledge of C++ development, technical concepts and tooling around it (compilers, build scripting, automated testing, debugging, package managers, etc.). Deep knowledge of local and HPC **Linux** environments. Have been daily driving Arch Linux distribution. Understands the importance of version control (**git**) and automated testing, and how to use them in software development (e.g. **TDD**). Hands-on experience of different parallel computing techniques ( **GPU (CUDA, SYCL, Vulkan)**, **MPI**, **simd** and **OpenMP**) and understands the underlying hardware and how to optimize for it. Can write **Python** and **Bash** from scripts to larger programs.