

**Ivan Martynov**

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Born 12.04.1982, Petrozavodsk  
Citizenship: Finland, Russia

**CV**

10.11.2023



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**EXPERTISE**

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- Programming languages: C/C++/C#, Python, Haskell, Lisp, Typescript, Java, MATLAB
- Programming concepts: OOP, MVC, network programming (TCP/UDP), image processing, computer graphics
- Markup languages:  $\text{\LaTeX}$ , HTML
- Research (mathematics, image processing)

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**EMPLOYMENT HISTORY**

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**Software programmer, CISS Software Oy, Oct. 2021 –**  
Implementing CAD applications features and code maintenance.

**Software engineer, Finnos Oy, Oct. 2016 – Aug. 2020**  
Algorithm development for the log sorting system. Devising and implementing methods for calculation of geometrical features of timber logs and their sawing patterns. Visualizing results in 2D and 3D.

**Project manager, SMIF Oy, Sep. 2012 – Sep. 2013**  
Control of web-site development, paper work and other tasks.

**Younger researcher, Lappeenranta-Lahti University of Technology, May. 2010 – April. 2011**  
Research at Machine Vision laboratory. The project's primary focus was the use of structured light patterns for a 3D reconstruction of an object's shape. I have been actively using the Matlab software and C++ programming language under Linux operating system.

**Engineer of an Internet class, Internet company "Sampo.ru", Petrozavodsk, Jun. – Aug. 2007 and Jun. – Aug. 2006 (tot. 6 months)**  
Working with customers, cash register and performing varying office work. Assisting users in an Internet class. Making agreements with customers for providing Internet to their homes.

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**EDUCATION**

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**Ph. D., Lappeenranta University of Technology, 2012 –**  
*Major subject:* image processing, shadow detection.

**Master of Science, Lappeenranta-Lahti University of Technology, 2006 – 2008**  
*Degree program:* information technology; *major subject:* technomathematics, *minor subject:* information technology.  
Master's thesis: Computing the persistent homology of range images with alpha shapes.

**Master of Science, Petrozavodsk State University, 2002 – 2008**  
*Degree program:* mathematics; *major subject:* topology, *minor subject:* mathematics.  
Master's thesis: About free products homeomorphisms.

**EKAMI:** Suomen kieltä edistyneille (advanced Finnish language course).

**Coursera.org courses (no certificate):**

- Game Design: Art and Concepts Specialization (four courses)
- Introduction to Interactive Programming in Python (two parts)
- Introduction to Game Development (introducing to Unity)
- Python for Everybody (four courses)
- Java Programming (two courses)

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**LANGUAGE SKILLS**

**Finnish:** good (upper intermediate level certificate, B2-C1)

**French:** basics

**English:** excellent (using actively since 2006)

**Russian:** mother tongue

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**IT SKILLS**

**Operation systems:** Windows, Linux (excellent), Mac OS X (basics)

**Software:** Office tools (Microsoft and LibreOffice), Visual Studio (.NET, Code), CAD (Microstation), Graphics (Inkscape, Gimp, Krita, Blender), CFD tools (Openfoam, Ansys Icem, Fluent) (basics)

**Programming:** C/C++/C#, Java, Python, Haskell, MATLAB, L<sup>A</sup>T<sub>E</sub>X, HTML

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**PERSONAL QUALITIES**

Communicative, responsible, team worker, computer literate, high analytical skills, quick learner, strong interpersonal skills, adaptable

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**REFERENCES**

**Jere Heikkinen** / *Finnos Oy* / CEO, jere.heikkinen [at] finnos.fi, +358 44 336 8652

**Tuomo Kauranne** / *Lappeenranta-Lahti University of Technology, Mathematics and Physics department* / adj. prof., lecturer, tuomo.kauranne [at] lut.fi, +358 40 530 0622

**Matylda Jablonska-Sabuka** / *Lappeenranta-Lahti University of Technology, Mathematics and Physics department* / post-doctoral researcher, matylda.jablonska-sabuka [at] lut.fi, +358 40 531 3041