

# Kirill Lykov

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## PERSONAL INFORMATION

Date of birth: March 18, 1987  
Nationality: Russia  
Marital status: Single

## CORE COMPETENCIES

Efficiency: Having both knowledge and experience in computer science, applied mathematics, and software engineering, I can find optimal solutions for challenging problems in a short time  
Adaptivity: Proved to be able to learn new fields (for instance: CAD, GIS, biophysics) and technologies at runtime  
Intuition: Experience in full-cycle of software development (from planning to maintenance)

## EXPERIENCE

### DOCTORAL ASSISTANT

*Institute of Computational Science, Lugano, Switzerland* 2011 – present

- Developed high performance simulation application targeted to run on Monte Rosa cluster
- Assisted in research of modeling blood flow in microvasculature

### SOFTWARE ENGINEER

*Data East, Novosibirsk, Russia* 2008 – 2011

- Developed a service for full text and geo-spatial search (Java, SolrJ/Lucene, JavaScript)
- Designed and developed extensions for a geographic information system (ArcGIS, C#, WPF, C++, COM/ATL, ArcObjects)
- Analyzed the customers requirements, software design and architecture

### SOFTWARE ENGINEER

*Ledas, Novosibirsk, Russia* 2007 – 2008

- Developed computational cores for modern CAD systems
- Done a research in polygonal mesh construction and medial axis computation

## TECHNICAL SKILLS

Knowledge of both computer science and computational algorithms  
Knowledge and experience in using Design Patterns in various languages  
Experience in using various languages and technologies: C++ ([brainbench test, 4.53](#)), C#, WPF, WinForms; Java, SolrJ/Lucene; MPI; scripting languages  
Some code examples are available at [github](#)  
Used various OS (Win, MacOS, Linux), IDE (Visual Studio, Eclipse), version control systems(svn, tfs, git)

## EDUCATION

Novosibirsk State University, Russia  
*Diploma in Applied Mathematics and Computer Science*

## LANGUAGES

English (fluent)  
Russian (native)

## TEACHING EXPERIENCE

March 2012 - May 2012: Teaching assistance in "Linear Algebra", Università della Svizzera italiana, Lugano, Switzerland,  
March 2010 - May 2010: Teaching assistance in "Programming I" course Mathematical Department, Novosibirsk State University,  
September 2010 - January 2011: Gave lectures in "Design Patterns" course for students of Novosibirsk State University specialized in Software Engineering and Computer Science.