



# Ilia Bykov

Date of birth: 16/07/1987

Nationality: Russian

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## EDUCATION

05/2015 – 11/2015

**AFW Wirtschaftsakademie Bad Harzburg GmbH**, [www.afwbadharzburg.de/](http://www.afwbadharzburg.de/)

GPA – 5,00 / 5 (among top 1% of students)

Diploma of project manager

03/2010 – till present

**Peter the Great St. Petersburg Polytechnic University**, St. Petersburg, Russia

Department of Computer Systems & Software Engineering, Postgraduate

Major: System analysis, management and processing

09/2004 – 02/2010

**Peter the Great St. Petersburg Polytechnic University**, St. Petersburg, Russia

(№7 University in Russia by QS 2015; №2 University in Russia by [THE 2016](#))

Master degree in Computer Science

Major: Computers, complexes, systems and networks.

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## ADDITIONAL TRAINING AND ACADEMIC EXPERIENCE

**Completed more than 10 courses, most important of which:**

- Design Patterns ([Luxoft](#)). Course in software design
- Qt Essentials ([Nokia](#)). Certification on the Qt library
- C++ Programming/Memory Management ([Geekbrains](#))
- DEV-PYTHON. Program development in Python ([St. Petersburg Polytechnic University](#))
- UNIX-ARCH. UNIX architecture (Linux/FreeBSD) ([St. Petersburg Polytechnic University](#))
- Machine Learning course by Stanford University ([www.ml-class.org](http://www.ml-class.org))
- AUT20. Vijeo Citect™ SCADA Software (Schneider Electric)
- AUT24. Programming language Cicode for Vijeo Citect (Schneider Electric)

**Participation in international and all-Russian research conferences:**

- XXVII week of Science SPbSTU (<http://week-science.spbstu.ru/>, St. Petersburg, 2009)

Presented paper “Research and algorithmization ARIMA method for predicting health indicators”

- Scientific and technological means to ensure energy saving and energy efficiency in the Russian economy (St. Petersburg, 2011)

Presented paper “Modelling and Analysis of Electric Power network, an adequate active power flow control problem in the transmission line”

- XLI week of Science SPbSTU (<http://week-science.spbstu.ru/>, St. Petersburg, 2012)

Presented paper “Synthesis automatic active power flow control algorithm in the energy unions”

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## WORK EXPERIENCE

10/2016 – till present

**Software Engineer Team Lead** in the Software Development Department

**Sea project**, St. Petersburg, Russia, <http://www.seaproject.ru/>

(The leader in the development and implementation of solutions for life cycle management and safe operation of industrial facilities, military equipment, engineering systems and technical equipment)

Responsibilities: Developed and implemented complex algorithms for ships floodability, Managing a team of 4 programmers and 1 tester, Communicated with customers; Developed a detailed project plan to monitor and track progress; Daily Code Review; Scrum

Keywords: C++, Qt, Algorithms, Math, Scrum

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04/2011 – 10/2016

**Senior C++(Qt) Software developer/Project manager** in the Information-Analytical Department  
NTT, St. Petersburg, Russia, <http://www.nppntt.ru/>

*(The leading company in the Russian market providing customized IT solutions for the telecommunications segment)*

Responsibilities: Developed and implemented complex algorithms for Natural Language Processing; Managed project changes, project schedule, and project costs using Agile software development; Communicated with customers; Developed a detailed project plan to monitor and track progress

Keywords: C++, Qt, Algorithms, Math, OpenCV, Text Mining, COM(OLE), Cognitive OpenOCR, Java, Play framework, Sphinx, Solr.

10/2009 – 10/2010

**C++ Software developer** in the Department of industrial automation

**Nordinkraft AG**, St. Petersburg, Russia, [www.nordinkraft.de/](http://www.nordinkraft.de/)

*(The Company specializes in developing, manufacturing and implementation of systems for controlling metallurgical processes)*

Responsibilities:

- Analytical systems design and creation for metal and metallurgical processes.
- Algorithm design and software development for instrumentation and measurement systems.

Keywords: C++, Algorithms, Math, SQL.

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## TEACHING

09/2010 – 02/2012

**Conducted practical lessons with half the group as a teacher assistant:**

- Programming in C ++ (first year)
- Supervisory control and data acquisition (SCADA) systems (last year)

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## ACTIVITIES

12/2012 – 02/2013

- SUMIT Startup School 2012, winners of the St. Petersburg stage of selection

*(Our project was a platform for trainers, where everyone can put up their courses, and visitors can buy the access to their favorite)*

- Developed and implemented own “full-text search” project for the Olympic Games in Sochi 2014
- Played for the University football team. Three times was recognized as the most valuable player of the University. The double winner of the University Cup championship.
- Organized a university football tournament together with like-minded (the tournament brought together 30 teams from different faculties), later organized matches against the Moscow State University (report from the match was shown on the news).

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## PERSONAL INTERESTS

- I am a big fan of travelling. Among the most memorable journeys are climbing Elbrus, a trip to India, a trip to the European Football Championship
- I attend seminars, conferences, the most famous among them are [Yac](#) (Yandex, the biggest technological conference in Eastern Europe) and [ADD](#) (Application Developer Days)
- Participated in the city Olympiads in mathematics and informatics. Taking top positions

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## SKILLS

- *Languages:* Russian (native), English (upper-intermediate)
- *Computer skills:* MS Office (Excel, Word, Power Point, Outlook, Access, Visio)
- Strong analytical skills developed through studies at high school with Mathematics specialization and University
- Top - 1% on the hackerrank.com (<https://www.hackerrank.com/beck5>)