

**Roman Ripp**  
*Software Engineer*

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#### Profile

Motivated, dynamic and talented Software Engineer seeking to advance professional career. Have a true passion for technology and programming. Highly-skilled C/C++ developer. In-depth understanding of Software Engineering, Algorithms and Data Structures and Design Patterns. Fast-learning, hardworking specialist with previous work and research experience. Showed myself as organized, self-motivated and capable of working under pressure by combining studies with work and other commitments. In 2012 was selected from over 1600 candidates and awarded with a Fulbright scholarship. Working as a Software Engineer for DP Technology corp. Involved in a Computer-aided Manufacturing (CAM) software project. Main responsibilities are to develop new features and maintain CNC machining simulation inside of CAM software ESPRIT (<https://www.espritam.com>).

#### Education and Training

- September 2012 – May 2014 Master's degree in Computer Science, University of Minnesota Twin-Cities, USA
- July 2012 – August 2012 Fulbright English For Graduate Studies, Monterey Institute of International Studies, USA
- September 2011 – June 2012 Master's degree in Control for Technical Systems, Tomsk Polytechnic University, Russia
- September 2007 – June 2011 Bachelor's degree in Automation and Control, Tomsk Polytechnic University, Russia.

#### Awards and Scholarships

- July 2012 – May 2014 Fulbright Foreign Student Program, USA.
- September 2007 – May 2012 Government Stipend, Russia.
- October 2007 – June 2011 Elite Education Stipend, Russia.

#### Work Experience

- 10/01/2015 - present Software Engineer for DP Technology corp. Involved in several projects including but not limited to CNC machining simulation, UI design, backend development, software quality improvement, continuous integration.
- 06/09/2014 - 08/28/2015 Software Engineering Intern at DP Technology corp. Worked on software optimization and new feature design for CAM solution ESPRIT.
- 05/27/2013 - 08/25/2013 Research assistant at the Robotic Sensor Networks Lab ([rsn.cs.umn.edu](http://rsn.cs.umn.edu)), University of Minnesota. Working on autonomous navigation algorithms for unmanned aerial vehicles.
- 08/11/2011 – 05/30/2012 Software Engineer at the Siberian State Medical University. Worked on medical data analysis, implemented the toolbox for organ failure risk estimation (Patent #2013618426).

#### Skills

**Software libraries:** C++ Standard Library, Machine Works, BinarySpaces, OpenCV.

**Programming languages:** C/C++, Python, C#, Java, JavaScript

**Development tools:** proficient with windows and unix command line tools, continuous integration setup, version control.

**Math and data analysis software:** PTC MathCAD, MATLAB, NumPy, SciPy.