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. Interested in 3d Simulation, 3d modeling and Robotics. Some of my work and interests can be seen at ripproman.info. Fast-learning, hard-working 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 the Fulbright scholarship. Working as a consultant for **DP Technology** from current place in Russia. Involved in a Computer-aided Manufacturing (CAM) software project. Main responsibilities is to develop new features and maintain CNC machining simulation inside of CAM software ESPRIT.

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	**Consultant** 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), 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

Skills and competences	• **Software libraries:** C++ Standard Library, Machine Works, BinarySpaces, OpenCV.
	• **Programming languages:** C/C++, Java, Python, VB, C#.
	• **Development tools:** TeamCity, Jenkins, Git, Accurev, VisualStudio, Eclipse, proficient with windows and unix command line tools.
	• **Math and data analysis software:** PTC MathCAD, MATLAB, NumPy, SciPy.