

# GEORGIY NOVOSELOV

## Software Developer

@ nfarost@gmail.com

+79251854178

Moscow, Russian Federation

genovoselov

Farost

## EDUCATION

### Bachelor

#### Information Science and Computation Technology, Higher School of Economics

Sep 2016 – Jun 2020

Moscow, Russian Federation

- GPA: 9.49/10.
- Concentration: Automated Systems.
- Graduation thesis: Implementation of Posit Real Numbers Computing for Machine Learning.

## EXPERIENCE

### Software Engineer

#### IIRBIS

Sep 2020 – Dec 2020

Moscow, Russian Federation

- Software development for a client-server 3D Unigine project.
- Emulation of a hardware's behaviour controlled by a third-party software.
- Played a role of a junior lead and a programmer of the project.

### C++ Developer

#### NTProgress

Dec 2020 – Ongoing

Moscow, Russian Federation

- Software development of a highload Fintech platform for financial markets. Main processes are based on Agile, Scrum, and XP.
- Participated in every aspect of the product's development: planning, analysis, programming, UI/UX, code review, manual testing, testing automation, documentation writing, and support.
- Frequently played a role of my team's Scrum master, which included sprint's and backlog's control and planning, Jira automation, lead's substitutions, etc.

## UNIVERSITY/SIDE PROJECTS



#### Time Management Strategy Game (2018) [Unity3D, C#]

A prototype of the main game's mechanics with UI, missions, characters, and dialogues, inspired by «This Is the Police».



#### Swarm Robotics Tasks Modeling System (2019) [ROS, Python]

A system that simulates the work of a group of robots, whose structure and FSMs are based on the behavior of ants.



#### Real-time Video Frames Classification Neural Net (2019) [C]

Implementation and optimization of the GEMM algorithm for a computer vision neural network on FPGA.



#### VR Stroop Test (2019) [Unity3D, C#]

Stroop test in virtual reality with Oculus Gear VR and data collection through neural-control interfaces.



#### Real Numbers' Performances Test System (2020) [C++]

A test system for the assessment of the performance and accuracy of real numbers' formats. Based on a set of algorithms used in machine learning tasks.

## SKILLS

### Coding: core

C/C++ Python SQL Git

### Coding: familiar with

C# CMake Bash Verilog

Qt MVS Doxygen LaTeX

Jira Spreadsheets

UI/UX Technical Writing XP

Linux/Arch/Ubuntu Windows

## LANGUAGES

### Russian

● ● ● ● ●

### English

● ● ● ● ●

## ACHIEVEMENTS

#### Regional Finalist: InnovateFPGA Design Contest 2019

Jul 2019

Global FPGA design contest in the field of Artificial Intelligence.

#### 3rd place: Student Research Paper Competition held by HSE University

Dec 2020

Implementation of Posit Real Numbers Computing for Machine Learning.

## PUBLICATIONS

#### Analysis of Posit and Bfloat Arithmetic of Real Numbers for Machine Learning

June 2021

IEEE Access

The author of the original text, one of two software developers.