

CONTACT

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SKILLS

Languages:

C, x86-64 Assembly, Python

Tools:

Make, VSCode, perf, radare2, LaTeX, git

Foreign languages:

English (Intermediate)

ACHIEVEMENTS

Belarus Physics Olympiads

Two-time winner (2019, 2021)

High school physics competition preceding International Physics Olympiad.

MIPT 'Phystech' olympiad

1st degree diploma (2021)

SPbU physics olympiad

1st degree diploma (2021)

ALEXANDER SIMANKOVICH

MIPT undergraduate - Applied Mathematics & Physics

OBJECTIVE

Curious undergraduate of MIPT seeking for a position in development of reliable and efficient software. Eager to apply knowledge in practice, develop skills and communication through dedicated work on project improvements.

EDUCATION

Bachelor of Applied Mathematics & Physics
MIPT, DREC - Moscow, Russia

2021 - 2025

GPA: **9.6/10.0**

GPA (Computer science): **10.0/10.0**

MAIN PROJECTS

Bellang

Tool: C, Make, Radare2, perf

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2021-2022

Compiler for custom 'Belarusian' language with cross-compilation, cross-translation and ELF x86-64 object files support.

Hashtable

Tool: C, perf, SIMD, x86-64 assembly, Make, Python

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2022

Hashtable implementation with performance tests and optimization.

Mandelbrot

Tool: C, Qt, SIMD

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2022

Mandelbrot set generator with AVX optimization.

printf

Tool: x86-64 Assembly, C, Make

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2022

Simplified printf() implementation in assembly language.

Differentiator

Tool: C, Make, LaTeX

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2021

Tool for expression differentiation with twisted LaTeX output.

Processor

Tool: C, Make

Supervisor: Ilya Dedinskiy (ded@ded32.ru)

2021

Virtual machine and assembler for custom assembly language.