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 # March 25th, 2003
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Education _____

MIPT (Moscow Institute of Physics and Technology)

Dolgoprudny, Russia

Undergraduate since Sep. 2020

• Second-year undergraduate student of DREC (Department of Radio Engineering and Cybernetics)

• Average point 9.4/10

Skills____

Languages C, C++, x86-64 Assembly, RISC-V Assembly, Latex, Bash

Tools Cmake, Make, Linux API and Shell, Git, Profiling and testing tools

Knowledge Microarchitecture (BPU, ILP, out-of-order execution, TLP, SMT), compilers' implementation technics, basic LLVM skills,

understanding how Linux OS is organized, basic FPGA and STM32 programming skills

Foreign languages English (B2)

Mathematical base Mathematical analysis, Linear algebra, Differential equations, Theory of probability

Key projects_

1 course

- Own VASM assembler language and compiler, which generates executable files that can be executed by VASM CPU
- Toy CMM programming language, which supports front-end, middle-end, back-end (compilation to own assembler language VASM), translation to x86-64 .EXE executable file, generating LLVM IR
- Hash-table, Mandelbrot rendering and Alpha-Blending algrorithm optimizations by SIMD instructions and assembler inserts (x86-64 arch)
- Some other toy programs and x86-64 assembler programs

2 course

- Interpreter of RISC-V .elf executable programs
- Backuper daemon (with Inotify Linux kernel subsystem)
- Own SSH implementation (in developing)
- Some other system programs based on Linux API like shared stack

Completed courses _____

Compiler technologies and professional programming

TEACHER – ILYA DEDINSKY 1 semester, 2020/2021

Introduction to Computer Architecture and Assembly Languages

TEACHER – ILYA DEDINSKY 2 semester, 2020/2021

Industrial C++ programming

Teacher – Ilya Dedinsky 2 semester, 2020/2021

Introduction to STM32 programming

Teacher – Arseniy Poida 2 semester, 2020/2021

FPGA programming

Teacher – Evgeny Sharamed 2 semester, 2020/2021

Architecture of computing systems

TEACHER – KIRILL KOROLEV 3-4 semesters, 2021/2022

CPU and OS simulation tools (ongoing)

TEACHER – IGOR PETUSHKOV 3-4 semesters, 2021/2022

Computer technologies (ongoing)

ISP RAS x Huawei

ISP RAS x Huawei

Technotrack Mail.ru

DMTT DREC MIPT

DMTT DREC MIPT

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Huawei

Teacher – Andrey Zhadchenko 3-4 semesters, 2021/2022