

Maxim Vanin

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Summary

First-year MIPT student of Department of Radio Engineering and Computer Technology specializing in low-level programming with hands-on experience in C, assembly. Responsible and collaborative team member with strong learning agility and passion for continuous improvement.

EDUCATION

**Moscow
Insti-
tute of
Physics
and Tech-
nology**

Department of Radio Engineering and
Computer Technology

 2024 - present
 MIPT

PROJECTS

Processor

This Software Processing Unit (SPU) includes a custom assembler, instruction decoding system, stack architecture, register set, DRAM-like memory capable of processing assembly files and executing instructions, along with video memory support.
github.com/maachs/processor

Derivative Solver

The software enables users to: define arbitrary mathematical functions, automatically generate complete step-by-step solution documentation in LaTeX format, process input expressions through recursive parsing, store parsed expressions in a binary expression tree structure with operator precedence preservation.
github.com/maachs/Differentiator

MyPrintf

The implementation provides a C-standard-compliant printf function with: full System V ABI compliance for parameter passing, support for core format specifiers: %d, %c, %s, %o, %x, jump table-based dispatcher for format handlers, complete format string parsing.
github.com/maachs/MyPrintf

ABOUT ME

Age: 19 years old
Interests: Computer science,
math, physics, art, architecture.

LANGUAGES

Russian C2* 
Native

English B1* 

SKILLS

C
C++
Assembly x86-64
Python

TOOLS

Git
Make
radare2
IDA(disasm)
Graphviz
gcc/g++

GRADES

MIPT avg: 8.29/10.00
Programming avg: 8.00/10.00