

SHUTOV DMITRIY

MIPT DREC 2nd year student

PROJECTS

[Dmit's Virtual Machine \(DVM\)](#)

- Turing-complete **Virtual Machine**
- Executes any programs represented on its **bytecode**
- Contains **registers, stack, RAM, video RAM**
- **Dmit's ASM** that translates ASM commands into their bytecodes
- **Dmit's ASM** supports **labels** and **procedures**

[Papich Language](#)

- Turing-complete **Programing Language**
- **Frontend/Backend** design
- **Assembly source** compiler output
- Supports **functions, variables, arithmetic, control flow operators (conditions, loops), I/O operators**
- Papich-inspired syntax

[Bailando Differentiator](#)

- Differentiates any math expressions
- Expression **optimizations**
- **Taylor Series** approximations
- **Python Graphs** Plotting
- Bailando **LaTeX** Output

[Dmit's Hacks](#)

- Cracking x86 binary crackme
- **DOS environment** (for wider types of hacks)
- **SFML** graphic interface

PROFESSIONAL SKILLS

- Program Languages: **C/C++, ASM x86-64, Python**
- Tools: **Git, SFML, GraphViz, GDB, LaTeX, IDA, Qt5, Turbo Debugger, TXLib**

PROGRAMMING COURSES PASSED

- MIPT Python Developing course
- MIPT C++ Developing course
- MIPT Algorithms and Data Structures course
- MIPT Industrial Programing and Compiler Techniques
- MIPT Computer Architecture and Assembly Languages course



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EDUCATION

Bachelor of Applied Mathematics & Physics

MIPT DREC

📅 2022 - PRESENT

📍 Moscow, Russia

SOFT SKILLS

- Time management
- Ambitiousness and leadership skills
- Activity
- Creativity

HOBBIES

- Workout
- Sambo
- Sailing sports
- Reading