VLADISLAV BURAVKO

Moscow, Russia

UniverTime

Education

- **Moscow Institute of Physics and Technology** — Moscow, Russia
  Bachelor of applied mathematics and physics; GPA: 7.30 — *Sep 2021 – Present*
  - **Relevant additional courses**: STM32, C++, ILab (Intel): lecturer - Dedinsky I.R., Huawei (ISP RAS): lecturer - Dedinsky I.R.

Skills

- **Languages**: Russian (Native), English (Upper-Intermediate), Deutsch (Elementary)
- **Programming languages**: C, C++, Assembly, Bash, Python
- **Technologies**: Git, Make, Graphviz, GDB, Markdown, HTML, GitHub Actions
- **Hardware**: STM32, Raspberry Pi

Projects

- **Language**: A completely new programming language written from scratch to create an assembly file and run programs on a virtual processor. The analysis of the written code takes place using a multi-level recursive descent.
- **CPU**: My own virtual processor running on its own assembler. It has a single contiguous memory zone for the stack, video memory and executable code.
- **Akinator - MIPT assistant**: A cute creature that won't let you get bored. You can sort all your acquaintances and friends into different categories. The information is stored as a binary tree. It also has the ability to embed a secret personalized branch using a secret word-code. The secret branch is hashed and inaccessible to ordinary users.
- **Differentiator**: If it is necessary to take the derivative of a huge and incomprehensible function to your mind. You need to familiarize yourself with this project. In addition, a unique scientific article is created there every time, about how this happens.
- **Parallelization using pthread API**: Some program can be speed up using multiple threads of execution. A good example of this speed up can be a calculation of integral using the Monte Carlo method.
- **STM32**: A course on working with hardware and interaction at the lowest level. Without any libraries. Only registers, C, assembler and nothing else.
- **The full list is on my github**: