Ksenia Dobrovolskaya

CONTACTS

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Personal information

3th year student of the Faculty of Radio Engineering and Computer Technologies,

MIPT.

- **Courses**
- Started programming in the 1st year of MIPT, took the yLab course on C++ and object-oriented programming.
- Taking a course in digital electronics at MIPT, which includes the design and manufacture of electronic devices.
- **Interests**
- The area of interest is incredibly wide, so I can not single out something specific, but at the moment I am very interested in software development, computer graphics, system programming, software testing.
- In the future, I would be happy improve my software developing skills. It would also be interesting to learn more about digital electronics.

Projects

Projects on the course yLab

MIPT   *Sept 2022 - Current*

ParaCL language interpreter	`https://github.com/kseniadobrovolskaia/ParaCL`
LIRS caching algorithm	`https://github.com/kseniadobrovolskaia/LIRS`
Template class Matrix	`https://github.com/kseniadobrovolskaia/Square_Matrix`

Team projects

MIPT   *Jan 2023 - Current, May 2022*

Graphic postcards in OpenGL	`https://github.com/matmuher/QR_postcards/tree/ksusha_210223_graphics`
LRU-K caching algorithm	`https://github.com/kseniadobrovolskaia/LRU-K`

Projects on system programming

MIPT   *Sept 2022 - Dec 2022*

This course contained a large number of mini-projects, with practical use of shared memory, FIFO, message queue, semaphores, signals, threads. The most interesting tasks I solved were:

Daemon	`https://github.com/kseniadobrovolskaia/3_sem_22_23/tree/main/task6/Dobrovolskaya_Task6`
Shell	`https://github.com/kseniadobrovolskaia/3_sem_22_23/tree/main/task1/Dobrovolskaya_Task1`

Skills

Programming language	C/C++, Python, Bash, GLSL, HTML.
Other	LaTeX, Google testing framework (gtest), Microsoft Office, cmake, Git, LLVM.