

KARINA ANISIMOVA

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EDUCATION

- Higher School of Economics
Currently pursuing bachelors degree in applied mathematics and informatics 2019-2023

RELEVANT FIRST-YEAR COURSEWORK:

Programming courses: algorithms and data structures, C++, programming paradigms and languages overview, UNIX operation system.

Math courses: calculus, discrete mathematics, abstract algebra, mathematical logic.

- Academic Gymnasium SPBU (State Exams: Mathematics $\frac{98}{100}$, Informatics $\frac{100}{100}$) 2015-2019

PROJECTS

- **MIND MAP**
Task: mind map application (eg [mindmeister](#))
My work: GUI (drawing a graph and its changes), support for various shapes of vertex, functions for working with the users.
Tools: C++, Qt
GitHub: [Mind Map](#)
- **GRAPH BUILDER ROBOT (duckietown)**
Task: drive around the entire map in adequate time and display the road graph
My work: algorithm development, improve color recognition in different light.
Tools: python, ROS, OpenCV
GitHub: [Graph builder robot](#)
- **TIC-TAC-TOE**
Task: console tic-tac-toe 10 by 10, use MVC (model-view-controller), unit-testing
Tools: C++
GitHub: [Tic-tac-toe](#)
- **BMP**
Task: crop and rotate part of BMP image
Tools: C
GitHub: [BMP](#)

ADDITIONAL EDUCATION

- Winter mini-degree program in STEM. JetBrains Research and MIT Jan 2020
Two-week program included: linear algebra and calculus, electricity and simple circuits, computer vision fundamentals, programming (based on python), introduction to robot programming with ROS, project development with Duckietown.
- Winter Olimpiad School MIPT Jan 2019
Two-week program included: binary search, graph algorithms, sorting, math, vector geometry

TECHNICAL SKILLS

- **Languages:** C++, C, Python, \LaTeX , PascalABC, Haskell
- **Tools:** STL, GitHub, SVN, Make, ROS, OpenCV, QT, Git

LANGUAGES

- Russian (Native)
- English (Intermediate)