Roman Bondar

Undergraduate Student - Moscow Institute of Physics and Technology (National Research University)

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Education

Student of the Department of Control and Applied Mathematics

Moscow Institute of Physics and Technology (National Research University)

📅 September 2018 – Ongoing   📍 Dolgoprudny, Russia

Mathematics: Calculus, Linear Algebra, Differential equations, Probability Theory, Computational Mathematics, Basic Algorithms
Physics: General Physics, Quantum Mechanics, Analytical Mechanics
Computer Science: Computer Architecture and Assembly Language, Operating Systems (C for Linux), Object-oriented Programming, Introduction to Complex Modeling of Physical Processes
Languages: English (B2)

Work Experience

Teacher

Summer Multidisciplinary School

📅 2018-2019   📍 Moscow, Russia

- Delivered 3 week-long courses on different sections of General Physics
- Worked as a mentor in a Python Physical Modeling project

Working in Team

International Educational Aerospace Creaton

📅 Autumn 2016   📍 London, England

- Designed and launched a small two-stage rocket in a half-russian half-english team of 4 pupils
- Calculated the optimal form of a rocket fin using flight simulator

Russian National Engineering School

📅 October 2017   📍 Sochi, Russia

- Took part in creating of a "Mobile satellite connection in undeveloped areas" startup
- Wrote software for antenna turning module

Computer Science Course Final Project

📅 Spring 2020   📍 MIPT, Dolgoprudny, Russia

% https://github.com/gitrbond/ising_project

- Managed a team of three students to create a desktop application visualising Ising Model on GitHub
- Analyzed few thousand simulations in order to find the phase transition point
- Created detailed technical documentation
- Presented the project in a public presentation

With the help and guidance of Andrey Tretyakov

Skills

Programming Languages: C, C++, Python
Operating Systems: Linux, Windows
Other:

- Git: Developed a CS project on GitHub
- LaTeX: Made up the project documentation
- English: Fluent (Worked in a team with foreign students)

Honors and Awards

Succesfully Passed "Algorithmical Programming" Refresher Course

📅 2020

Grant of the President of the Russian Federation Winner

📅 2018 – Ongoing

For winning 1st degree diploma on a rating Physics Olimpiad

Russian National Engineering School

📅 2017

- First Degree Diploma

Moscow Government Grant in the Field of Education Winner

📅 2015

For winning bronze medal on Rissian National Stoletov Physics Olimpiad

Other Activities / Hobbies

Organizing Student Events

MIPT Profkom Team

📅 2018-2020

Organizing concerts, outdoor activities, and festive events with more than 1k students engaged

Mountain Hiking

- Climbed the Europe's highest mountain Elbrus (5642m)
- Managed my own tour to Karelia Mountains in summer 2020