Aliaksandr Melnichenka

Lyceum BSU '2024

International examinations

SAT Maths 790/800 - Top 99%*

SAT English 630/800 - Top 81%*

IELTS - C1 English Level (7.0 score)

*Represents the percentage of graduates who took the SAT from all over the world in the past 3 years who scored the same or lower score.

Olympiads

Lyceum BSU team at the BelPhO final in Minsk

Diploma of the 1st degree at the Final Stage (Stage 4) of the Republican Physics Olympiad for 9th grade

Diploma of the 3rd degree at the Final Stage (Stage 4) of the Republican Physics Olympiad for 10th grade

2nd place out of 5727 participants in the Republic of Belarus in the game-competition "Zubrenok-2021"

Diploma of the 1st degree (Absolute winner) at Stage 3 of the Republican Physics Olympiad for 10th grade

Diploma of the 2nd degree (Top-2) at Stage 3 of the Republican Physics Olympiad for 11th grade

Diploma of the 2nd degree at Stage 3 of the Republican Physics Olympiad for 9th grade

Diploma of the 3rd degree at the Final Stage (Stage 3) of the Regional Physics Olympiad for 8th grade

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Diploma of the 1st degree at "Phystech.International-2023" in Physics

Diploma of the 3rd degree at "Phystech.International-2022" in Physics

Diploma of the Winner in the Online stage of the "Fiztech" Physics Olympiad for 11th grade

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Top-5% in the Olympiad in Competitive Programming Codeforces Round 806 (Div. 4)

Recipient of the Republican Youth Talent Support Fund award; Three-time recipient of the President of the Republic of Belarus Scholarship

Young Physicists Tournament

Awarding the "Lyceum BSU-1!" team

Finalist of the National Young Physicists Tournament, Team Captain and member of the national team at the International Young Physicists Tournament.

According to the captain's contest, I was recognized as the best Team Leader during the Regional stage of the BYPT.

In the media

Being interviewed on a local TV station

Interview for "Tselakanal Mozyr"

Interview for "Nastaŭnickaja hazeta"

Winners of the third stage of the Republican Olympiad in the educational subject "Physics" 2023 (Article 1) (Article 2)

Congratulations to the winners of the Republican Physics Olympiad

Winners of the third stage of the Republican Olympiad in the educational subject "Physics"

Letters of Appreciation

Certificate of the Presidential Award

Letter of appreciation from the Mozyr District Executive Committee (view letter)

Letter of appreciation for educational excellence from the School Administration (view letter)

Independent Research

Research Documentation

Video Presentation for International YPT

"Features of sound waves when passing through openings". Research on environmental sound factors to create more advanced civil defense sirens; the project became a finalist at the National Young Physicists Tournament

Belarusian Physics Olympiad Website

belphol.github.io ☆ 3 ∀ 3

Created the site website for presentation for Belarusian Physics Olympiads, approved by members of the IPhO board: Slobodyanuk A.I. and Markovich L.G.

On the IPhO's country list, marked as the Contact of the Republic of Belarus (BLR).

First Solutions Manual for Savchenko O.Ya.'s textbook

savchenko-physics.github.io ☆ 4 ∀ 1

⚠ 2000+ Unique Visitors monthly

Founded the creation of the first-ever solutions manual for Savchenko O.Ya.'s textbook "Problems in Physics." Organized an International team, which contains over 600 solutions available online.

Approved by Associate Professor, Candidate of Physical and Mathematical Sciences Pavel Andreevich Vitoje(1.3 mln+ subscribers on YouTube) and Candidate of Physical and Mathematical Sciences Vyacheslav Gurkov.

Arduino-Bike-Computer - statisatics of your trips

15 GitHub stars ⭐

Unsatisfied with the functionality of shop bike computers, I decided to create my own solution. Working independently in our garden, I devised a system that utilized a magnet and a Hall Sensor attached to the bike to accurately measure wheel movement in inercial system of the bike body. GitHub of the project.

LEDeffects - Smart Lightning via Telegram

../astrosander/LEDeffects ☆ 4 ∀ 2

Created a package of effects for addressable LED strips, controlled via a Telegram bot on ESP-8266. 30,000+ views on Reddit.

Desktop version of the Cambridge Dictionary

../astrosander/cambridge-dictionary-audio ☆ 5 ∀ 1

Word:
Pronounce
Pronunciation: /ˈbɑɪ.ɪ.ˌkɔ.ɪ.ˌkɔ.ɪ.ˌkɔ