

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 National Physics Olympiad for 9th grade

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

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

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

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

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

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

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

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

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

Young Physicists Tournament

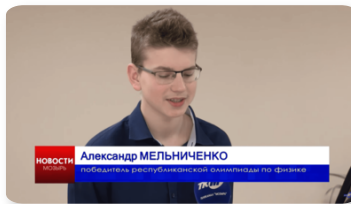


Awarding the "Lyceum BSU-11" team

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 "Telekanal Mozyr"

Interview for "Nastaŭnickaja hazeta"

Winners of the third stage of the National Olympiad in the educational subject "Physics" 2023 ([Article 1](#)) ([Article 2](#))

Congratulations to the winners of the National Physics Olympiad

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

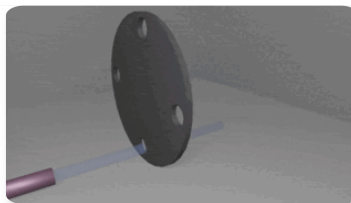
Letters of Appreciation

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

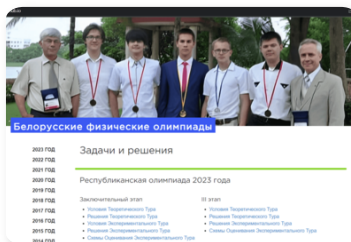


Research Documentation

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 sole **website** for preparation 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

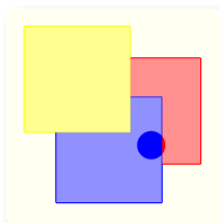
🔥 2000+ Unique Visitors monthly

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 Viktor**(1.1 mln+ subscribers on **YouTube**) and Candidate of Physical and Mathematical Sciences **Vyacheslav Gunkov**

ipho-unofficial.org website

An unofficial database for International Physics Olympiads



Collaborated with Abdurrahman Akkas on his International Physics Olympiads project. Added some content and fixed some bags by uploading to the [GitHub page](#).

[Arduino-Bike-Computer - statistics 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 inertial system of the bike body. [GitHub](#) of the project.

[LEDEffects - Smart lighting via Telegram](#)

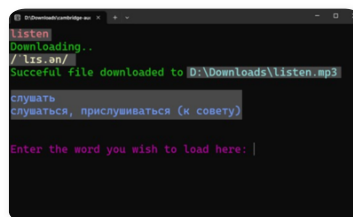
[../astrosander/LEDEffects](#) ☆ 4 🗨 2



Created a [package of effects](#) for addressable LED strips, controlled via a Telegram bot on ESP-8266. Allows you to remotely, from anywhere in the world, change the lighting in your home. 30,000+ views on Reddit.

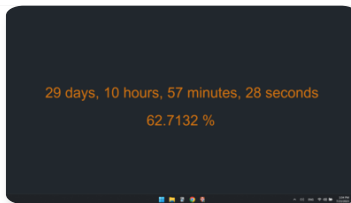
[Desktop version of the Cambridge Dictionary](#) 🇬🇧

[../astrosander/cambridge-dictionary-audio](#) ☆ 6 🗨 1



A progressive framework for scraping [audio files](#) of word pronunciations from the [dictionary.cambridge.org](#)

[WallTime - Application Creator](#)



Open-source [Python application](#) displaying the time remaining until the deadline as live wallpapers.

Teacher and Organizer of Olympiad



Worked at a local programming club, while sharing my experience with juniors about C++ algorithms. Towards the end of the school year, I helped with writing assignments and organizing the [CYF Junior-2022 Olympiad](#)

NearCrowd

Data Collector for AI Training

I wrote texts and created problems primarily in Math, Physics, and Computer Science to enhance the AI databases used for solving targeted mathematical problems, by delivering a wide range of educational content.

[IELTS Telegram Blog](#)

Creator, 200+ Subscribers

Created and managed a [channel](#), providing valuable information and advice on preparing for [IELTS](#) and [SAT](#) exams based on personal experience

Karate

Diploma of the 1st degree in Kumite at the "New Year Starts" tournament ([view diploma](#))

3rd Place in the City of Mozyr Karate Championship, Team Kata category, Boys 10-13 years ([view certificate](#))

3rd Place in the Intra-club Karate Tournament, Individual Kata category ([view certificate](#))

2nd Place in the Championship of the institution "SDYUSHOR "Pearl of Polesye"" in Karate, Kata category 2017 code ([view certificate](#))

3rd Place in the Gomel City Karate WKF Championship, Phantom category ([view certificate](#))

2nd Place in the Championship of the institution "SDYUSHOR "Pearl of Polesye"" in Karate, Kata category 2019 code [\(view certificate\)](#)

Diploma of the 3rd degree in Kata, 8-9 years, at the "New Year Starts" tournament [\(view diploma\)](#)

Diploma of the 3rd degree in Individual Kata at the "Kofukan" Sports Club Open Martial Arts Competition [\(view diploma\)](#)

Diploma of the 3rd degree in Kata, 10+ years, at the "New Year Starts" tournament [\(view diploma\)](#)

Certificate for a short course on "Technique and Tactics of Kumite" by D.M. Klyuev [\(view certificate\)](#)

Chess

[Diploma](#) for High Achievements in Chess Training

[Appreciation](#) from "DUSCH No. 1 Mozyr" for active participation in events dedicated to the celebration of the 860th anniversary of the city of MOZYR

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