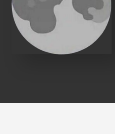


# Aliaksandr Melnichenka

Lyceum BSU '2024



## International examinations

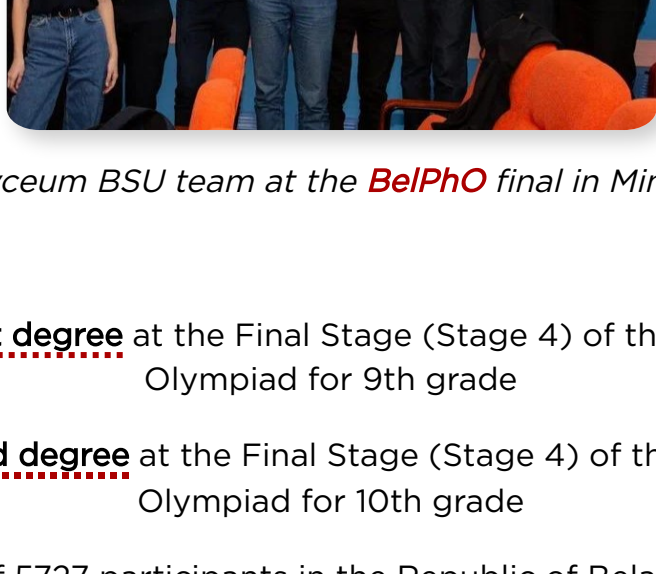
**SAT** Maths 790/800 - Top 99%\*

**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

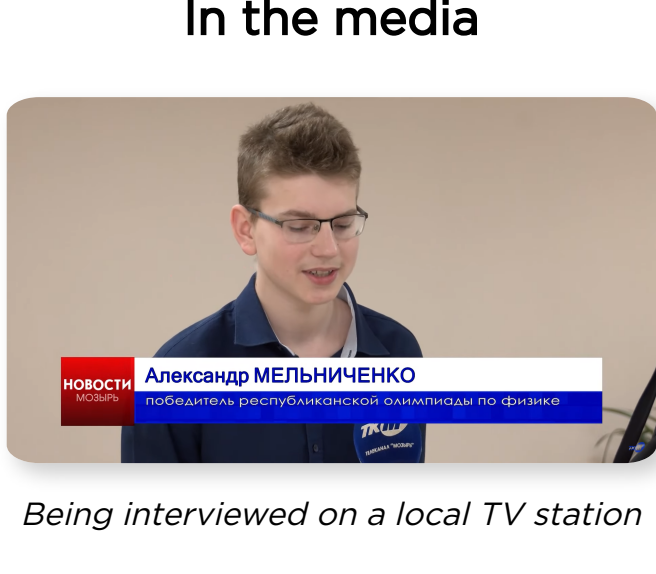
Diploma of the **3rd degree** at "Phystech.International-2022" in Physics

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

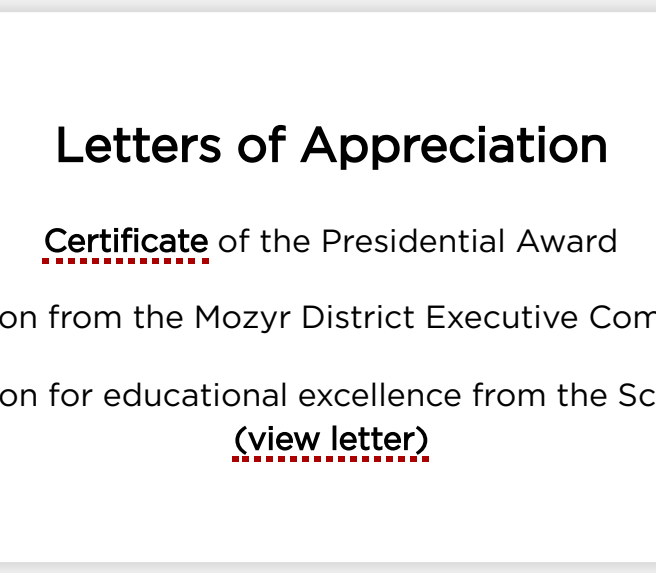


Awarding the "Lyceum BSU-IT" team

**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 "Nastainickaja 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"

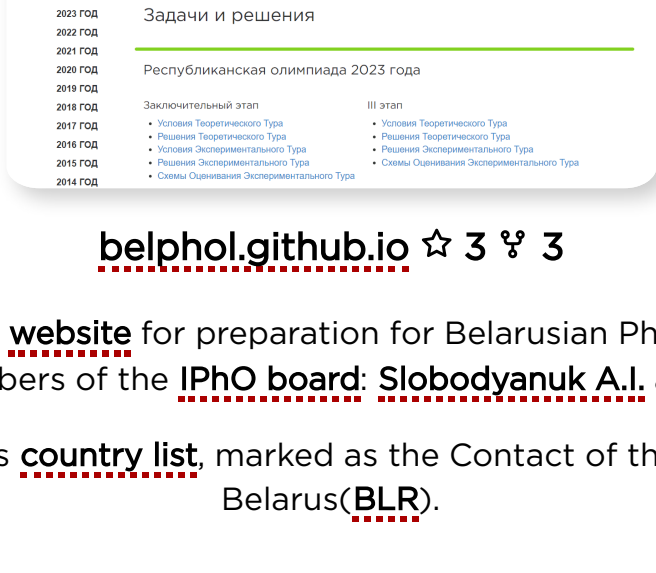
## Letters of Appreciation

**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

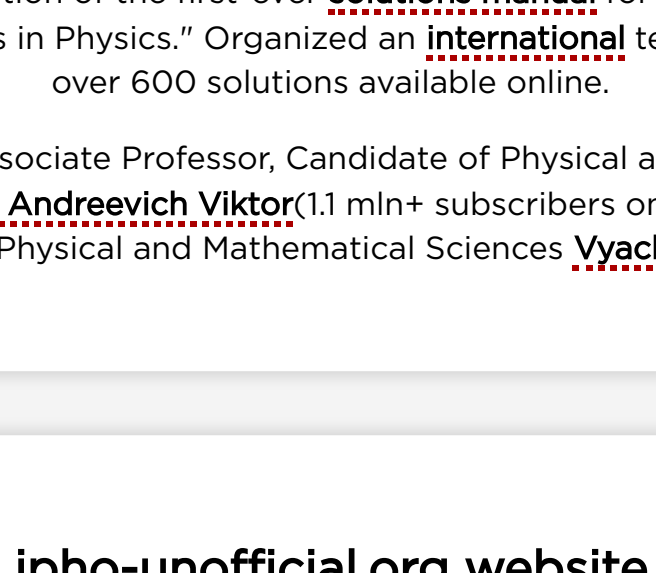


**Research Documentation**

**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

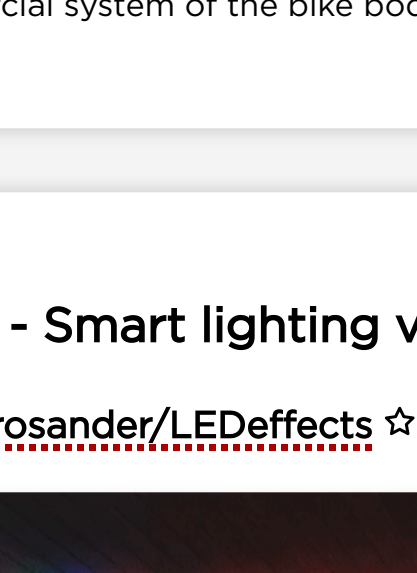
🔥2000+ Unique Visitors monthly

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

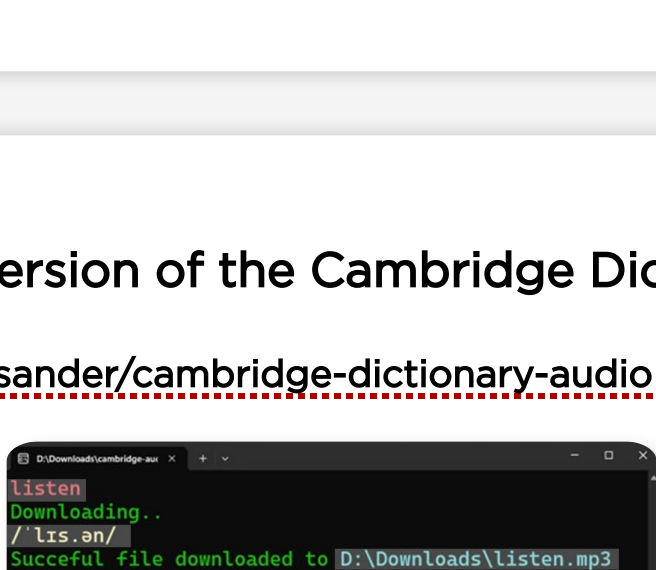
An unofficial database for International Physics Olympiads



Collaborated with Abdurrahman Akkas on his International Physics Olympiads project. Added some content and fixed some bugs by uploading to the **GitHub page**.

## Arduino-Bike-Computer - statistics of your trips

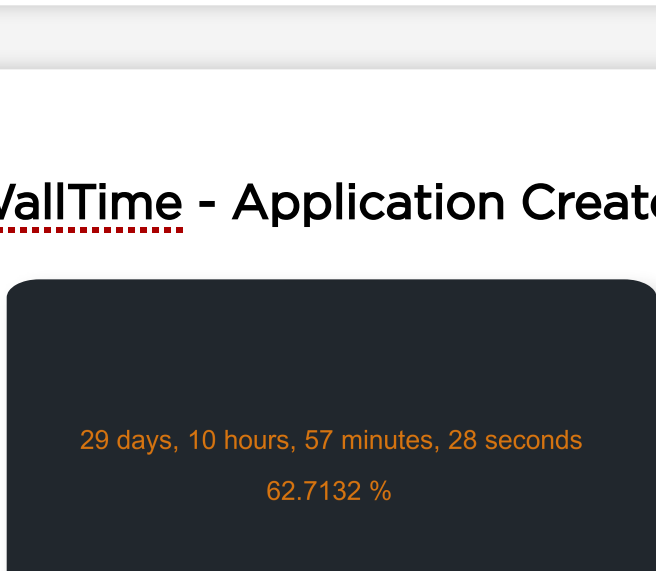
15 GitHub stars★



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.

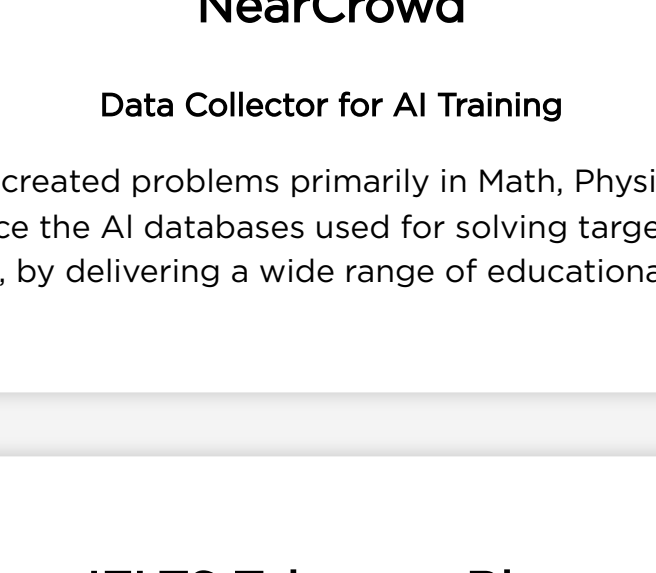
## Desktop version of the Cambridge Dictionary

**./astrosander/cambridge-dictionary-audio** ☆ 5 ♥ 1



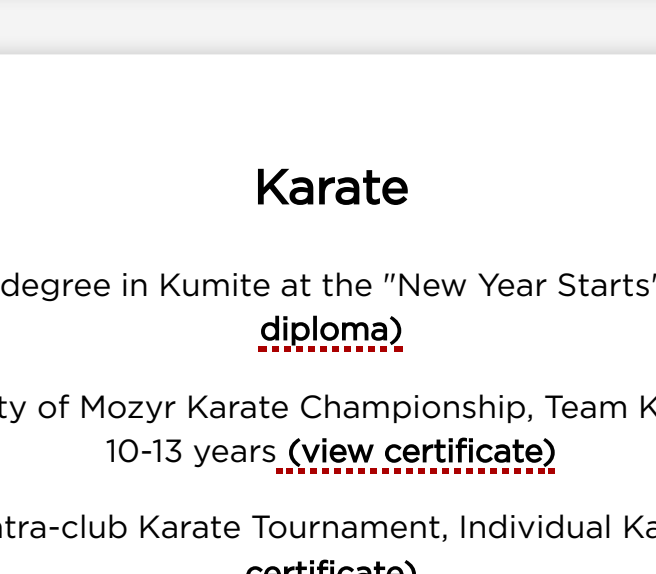
A progressive framework for scraping **audio files** of word pronunciations from the **dictionary.cambridge.org**

## 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

Contact: [astrosander01@gmail.com](mailto:astrosander01@gmail.com)