

# Aliaksandr Melnichenka

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## SUMMARY

Physics enthusiast with exceptional background in Physics, Computer Modeling, and Web-development.

## EDUCATION

**Lyceum of Belarusian State University, High School Diploma** *September 2022 - May 2024*  
Academic Focus: Specialized in Physics. GPA: 9.6/10. The curriculum included advanced coursework in Physics, Math, and Computer Science. Actively participated in National Physics Olympiad(BelPhO) and Young Physics Tournaments.

## WORK EXPERIENCE

**First Solutions Manual of Savchenko O.Y.'s Textbook project** *October 2023 - Present*  
Founder of non-profit project, [savchenkosolutions.com](https://savchenkosolutions.com)

- First-ever comprehensive solution manual for detailed problem solving of the Savchenko Problems in Physics, enabling Olympiad students to get access to solutions;
- International team of over 10 people;
- One of the most active members [Luis Daniel Fernández Quintana](#), College Professor, a coach for Physics's contest and a Cuban physicist
- 800 problems solved in Russian and English
- 2000+ unique visitors monthly

## PROFESSIONAL EXPERIENCE

**Belarusian Physics Olympiad Website** *September 2023 - Present*  
Project leader, [belphol.github.io](https://belphol.github.io)

- Collection of problems and solutions from various years(1990-2024), designed to help you enhance your skills and excel in physics olympiads.;
- According to Yandex, the most popular resource for preparing for Physics Olympiads in Belarus.
- Endorsed by Dr. Leonid Markovich and BelPhO President Prof. Anatoli Slabadzhanuk.
- In the [list](#) of IPhO countries, it is marked as a contact of the Republic of Belarus (BLR).

**IPhO unofficial database** *January 2024 - February 2024*  
Contributor, [ipho-unofficial.org](https://ipho-unofficial.org)

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

**Open source developer** *August 2020 - Present*  
Software developer, [GitHub](#)

- Bike computer based on arduino and Hall Sensor (16 stars, 3 watching);
- Parser for scrapping audio files from the Cambridge Dictionary (11 stars, 3 forks);
- LED strip effects package controlled via Telegram using ESP8266 (3 stars, 2 forks);
- Physical simulation of the Magnetic Gear model (1 stars, 2 forks).

## MISCELLANEOUS

- According to the results of the IPhO selection exam, got into the reserve of the national team of the Republic of Belarus (sixth in the team of five people).
- 3-time medalist in Belarusian National Physics Olympiad (Gold: 2022. Silver: 2024. Bronze: 2023.).
- Twice medalist and leader of the "Lyceum BSU-10" and "Lyceum BSU-11" teams on the National Young Physics Tournament (Silver: 2023, 2024).
- Recipient of the National Youth Talent Support Fund award

## SKILLS

**Programming Languages:** C++, Python, Mathematica

**Technologies:** Latex, Matplotlib

**Languages:** Russian(Native), Belarussian(Native), English(Advanced C1)