

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, savchenko-physics.github.io

- First-ever comprehensive solution manual for detailed problemsolving of the iconic "Physics Tasks" by O.Y.Savchenko, enabling Olympiad students to get access to solutions;
- International team of 5 people;
- One of the most active members [Luis Daniel Fernández Quintana](#), College Professor, a coach for Physics's contest and a Cuban physicist
- 650+ problems solved on Russian and English
- 1700-2000 unique visitors monthly

PROFESSIONAL EXPERIENCE

Belarusian Physics Olympiad Website *September 2023 - Present*
Project leader, 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

- 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](https://github.com)

- 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)