

Aleksandar Prodanov

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EDUCATION

- **High School**

Nikola Obreshkov High School of Mathematics and Natural Sciences, Kazanlak, Bulgaria
September 2014 — present
Expected graduation: May 2022

HONORS AND AWARDS

- National Competition for Key Competences in Natural Sciences
Autumn 2015 – Silver Medal
Autumn 2016, 2017 and Winter 2018 – Special Award
- Autumn National Physics Competition
November 2016, Velingrad, Bulgaria – 4th place (7th grade)
November 2017, Varna, Bulgaria – 4th place (9th grade)
November 2018, Sandanski, Bulgaria – 4th place (Selection for IPhO)
- Spring National Physics Competition
March 2017, Varshetz, Bulgaria – 1st place (7th grade)
March 2018, Stara Zagora, Bulgaria – 4th place (9th grade)
March 2019, Varshetz, Bulgaria – 5th place (Selection for IPhO)
- National Physics Olympiad
April 2017, Razgrad, Bulgaria – 4th place (7th grade)
April 2018, Ruse, Bulgaria – 1st place (9th grade)
April 2019, Ruse, Bulgaria – 1st place (Selection for IPhO – Theory); 2nd place (Selection for IPhO - overall)
- National Astronomy Olympiad
May 2017, Shumen, Bulgaria – 4th place (7th-8th grade)
March 2019, Stara Zagora, Bulgaria – 9th place (9th-10th grade)
- Thailand International Mathematical Olympiad(TIMO)
February 2018, Bangkok, Thailand – Silver medal
- European Union Science Olympiad(EUSO)
May 2019, Almada, Portugal – Silver Medal
- Mathematics Without Borders International Tournament Final, Nessebar, Bulgaria
July 2017 – Silver medal
July 2018 – Gold medal

HIGH SCHOOL ACTIVITIES

- **Summer school in mathematics and physics, Teo Foundation - Oriahovitsa, July 2017/18**
Introduction to calculus - limits, infinitesimals, differential calculus, integral calculus, simple separable ordinary differential equations, foundations of multivariable calculus, and its usage to solve problems in the field of physics and applied mathematics.
- **Summer school in physics, Teo Foundation - Panitsite, August 2017/18**
Introduction to physics and applied mathematics; Methods for solving problems; “Lectures on the seven deadly sins and their connection to entropy”.
- **Physics club, Teodosii Teodosiev - September 2016 – present**
Deepening one’s knowledge in the area of physics and mathematics.
- **Physics and Astronomy club, Georgi Biandov - October 2016 – present**
Deepening one’s knowledge in the area of physics, mathematics and astronomy.
- **Mathematics club - October 2016 - June 2017**
Solving problems from different areas of mathematics - geometry, algebra, number theory, combinatorics, graph theory.
Preparation for national and international mathematical olympiads.
- **Chemistry club - January 2019 - present**
Deepening one’s knowledge in the area of chemistry.
Preparation for national chemistry olympiads.

SKILLS

- Some experience with the programming languages C#, C++, Visual Basic
- Extensive experience with the programming language Python 2.7
- Experience with Wolfram Mathematica
- Extensive experience with video, audio and image editing software – Adobe After Effects, Premiere Pro, Audition, Photoshop
- Experience with printed circuit board design software – Eagle 5.11.0, Fritzing
- Extensive experience with Arduino and Arduino programming language
- Experience with Processing 3.3.6
- Extensive experience with soldering station
- Extensive experience with analog oscilloscope
- Extensive experience in developing electronic circuit boards
- Experience with dangerous and corrosive chemicals

REFERENCES

- **Evgeni Georgiev** - Nikola Obreshkov High School of Mathematics and Natural Sciences, Kazanlak, Bulgaria
Mathematics teacher and supervisor of the Mathematics club
evgenikg@abv.bg (+359) 88 4844 866
- **Teodosii Teodosiev** – National Center of Natural Sciences, Kazanlak, Bulgaria
Physics teacher and supervisor of the National Center of Natural Sciences – Physics
teosteo@abv.bg (+359) 89 789 5033
- **Georgi Biandov** - Nikola Obreshkov High School of Mathematics and Natural Sciences, Kazanlak, Bulgaria
Physics teacher and supervisor of the Physics and Astronomy club
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