

Kaloyan Dimitrov

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Projects

NOVEMBER 2021 - PRESENT

SGCS

- Invented an algorithm for coordination of a robotic swarm, inspired by ant colonial behavior
- Developed a computer simulation with Java and JavaFX to showcase it
- Wrote project documentation and created promotional videos
- Currently developing the communication protocol
- Secured funding from the Parent-Teacher Association at ACS to further develop the project

JANUARY 2022 - MARCH 2022

Plant Mars Challenge

- Participated in a team that compared Mars soil simulant with Earth soil and hydroponics
- Responsible for the hydroponics
- Filmed progress reports

JUNE 2019 - DECEMBER 2021

ParoleMemo

- Developed a web application to digitize vocabulary notebooks
- Developed the back-end, including authentication, with JavaScript and Go
- Developed the front-end with React and MaterialUI

Education

SEPTEMBER 2020 - Present

American College of Sofia

APRIL 2018 - JUNE 2019

SoftUni

- Python Fundamentals - Grade 6.00/6.00
- Visualization with 3ds Max - Grade 5.00 / 6.00

SEPTEMBER 2018 - JUNE 2022

Olimpiici

- Competitive programming with C/C++ in divisions D - B

AUGUST 2016 - JUNE 2018

Telerik Academy

- Algorithmic programming with C/C++
- Game development with JavaScript

JUNE 2016

Robopartans

- Robotics level A & B

SEPTEMBER 2013 - JUNE 2020

National School of Culture

Awards

APRIL 2022

Vienna International Science Fair

- Best of Category and Best Senior Engineering Project

APRIL 2022

National Spring Tournament in Information Technologies

- First place in "Practical Programs"

MARCH 2022

FISSION

- Best Project in Computer Science

DECEMBER 2021

National Autumn Tournament in Information Technologies John Atanasoff

- Second place in "Software Applications"

NOVEMBER 2020

XX National Autumn Informatics Tournament

- First place

APRIL 2018

National Spring Informatics Tournament

- First place

MARCH 2018 - NOVEMBER 2021

SOFIA OPEN Informatics Competitions

- Bronze medal - November 2021
- Bronze medal - April 2021
- Gold medal - November 2020
- Bronze medal - November 2019
- Gold medal - March 2019
- Gold medal - November 2018
- Gold medal - March 2018

Skills

Languages

- Bulgarian - native
- English - fluent
- German and Italian - basic

Computer skills

- Programming languages: C/C++, JavaScript/TypeScript, Go, Python, Java, Rust
- Expansive knowledge of Linux, Virtual Machines, and Docker

Organizational skills

- Chairman of the Digital Committee at ACS
- Organizer of FISSION
- Organized multiple theatrical performances as well as other events
- Treasurer of the class through elementary and middle school
- Disciplined and well organized by balancing multiple extracurricular activities with excellent school performance

Communication skills

- Facilitated communication between classmates and faculty by being a section representative in 2020/2021
- Led numerous group projects

Hobbies

- Love sports - Basketball, Taekwondo, Traditional archery, Swimming, Football, Hiking, Tennis, Table Tennis, and Chess
- Participate in the ACS English Drama program
- Passionate about filmmaking and photography:
 - Proficient in Adobe Creative Suite, Audacity, and DaVinci Resolve
 - Basic experience in Blender, Cinema 4D, Maya, 3ds Max, and Houdini