

PROFILE

Recent aerospace engineering graduate with practical experience in systems engineering and CubeSat design and a keen interest in mechanical design and Earth observation. Worked on analyzing ESA Cluster magnetometer performance and contributed to CubeSat projects, including developing an AIV training platform. Served as President of the University of Birmingham Space Society, leading initiatives to promote student engagement in space exploration. Co-founder of a startup developing tools to encourage the use of solutions, powered by satellite data.

Actively involved in policy-making at national, European, and United Nations levels. Contributes to shaping national and EU youth and educational policies as a Bulgarian Youth Delegate to the Council of the EU and EU Youth Stakeholder Group at the European Commission. Skilled in bridging technical expertise and policy insights to address challenges in the aerospace sector.

RELEVANT EXPERIENCE

- Datafrost Space**
 Slovakia (Remote)
Co-Founder
 May 2024 - Present
 A start up developing tools to encourage the use of satellite data and services through effective matchmaking and through empowering users, with a special focus on end users without prior experience. Devised within the 5th ASEF Young Leaders Summit and with the support of the Slovak Space Office. Winner of the Spaceport_SK incubator 2024.
- EnduroSat AD**
 Sofia, Bulgaria
Research & Development Mechanical Engineering Intern
 July 2023 - September 2023 August 2022 - October 2022
 Designed and simulated a deployment and control mechanism for external structures on large CubeSat formfactors. Research into the need for large-surface area space structures components for CubeSats and into their feasibility.
- University of Birmingham Space Society**
 Birmingham, United Kingdom
President
 September 2022 - June 2024
 Coordinating resources and funding for 4 engineering projects, expanding outreach on the impact of space. Working closely with the administration of the University, local societies (including the British Interplanetary Society) and the private sector to fund the activities of the Space Society and carry out events.
- Rocket Project Lead**
 September 2021 - September 2022
- Space Generation Advisory Council**
 International
National Point of Contact for Bulgaria
 February 2025 - Present
 Working on establishing a national network of students and young professionals who share a passion for space while collaborating with institutions and the private sector to ensure a path for youth to the industry.

RELEVANT PROJECTS

- Individual Research Project**
 University of Birmingham
 Research into the long-term performance of the Magnetic Field Investigation (FGM) instrument on board the ESA Cluster spacecraft
- Masters Group Project**
 University of Birmingham
 Design of a modular platform for CubeSat AIV training. Inter-university effort supported by Thales Alenia Space, UK.
- Space Brief**
 Own initiative
 A newsletter and an Instagram profile dedicated to the global governance of outer space and highlighting the positive impacts of space activities, particularly emphasizing the significance of Earth observational data in advancing the UN Sustainable Development Goals.

REFERENCES

- Hugo Williams**
 University of Birmingham
 Head of Education & Aerospace Engineering Programme Lead
 h.williams.8@bham.ac.uk
- Michal Brichta**
 Slovak Space Office
 Co-founder and head of the industry branch
 michal.brichta@sario.sk
- Lena Karnalova**
 Big Brothers Big Sisters of Bulgaria Association
 Founder and CEO
 lkarnalova@yahoo.com



Dimitar Ferdinandov
 Date of birth: 29/05/2001

Contact

+359 89 4775135
 +44 7902 164949

dferdinandov2001@gmail.com
 dx67@alumni.bham.ac.uk

dimitarferdinandov.com
 (or scan the QR code)

41 Skopie Street
 Plovdiv, Bulgaria 4030

Education
 2020/2024 | Master of Engineering
Aerospace Engineering
 University of Birmingham

Expertise

- Communication, dialogue w/ institutions, social media
- CAD & CFD software (AutoCAD, Fusion360, Solid Works)
- Research, Data Analysis & Report Writing
- Programming (C++, Python, MATLAB)

Languages

Bulgarian
 mother tongue

English
 C2 Proficiency Cambridge English

German
 DSD Stufung II Diploma

   

Honors & Awards

Winner of the Speaker Competition of the TEDxUniversityofBirmingham

a competition to chose a student speaker for the 2022 TEDx event
// Feb 2022

Laureate of “The Excellent students of Bulgaria” initiative by the 24 Chasa daily newspaper and The Ministry of Education and Science of Bulgaria
// Oct 2020

Winner of the XXI. National contest “The Cosmos – The Present and Future of Humanity” under the patronage of the first Bulgarian cosmonaut General Georgi Ivanov with the Solar Colonization Program, SOCOL
// Jul 2019

Winner of the National contest “PHYSICS-ENGINEERING-TECHNOLOGY” by Plovdiv University “Paisii Hilendarski”
// Mar 2019

EducationUSA Opportunity Funds Grant by the Bulgarian-American Commission for Educational Exchange “Fulbright”
// Jan 2019

Winner of the XX. National contest “The Cosmos – The Present and Future of Humanity” with the project “ETMO - Earth Threatening Asteroid Observatory”
// Jul 2018

Participant in the delegation to welcome the American Astronaut R. Linnehan after being personally invited by the US Ambassador Eric Rubin to his residency in Sofia, Bulgaria
// May 2018

International CMS Masterclass - participation after selection, organized by CERN, held at the Technical University of Sofia.
// Mar 2018

Finalist of the “Particles4U” competition, organized by the International Particle Physics Outreach Group (IPPOG), with the video project “A walk inside of the world of the Atom and the reason we get cold” / „Разходка в света на атома и защо ни е студено“/
// Jan 2018

Winner of the “Computer-generated graphics and imagery” field of the XIX. National contest “The Cosmos – The Present and Future of Humanity” with a project to create a laser-powered space elevator
// Jul 2017

Semi-finalist of the European Youth Space Contest “Odysseus II”
// Jun 2017, Soro, Denmark

Publications

»» Impact of anti-epidemic measures in Bulgaria on COVID-19 morbidity and mortality

»» Bulgarian Journal of Public Health, issued by the National Centre for Public Health and Analyses at the Bulgarian Ministry of Health

Additional experience

National Youth Forum of Bulgaria Sofia, Bulgaria

Bulgarian youth delegate to the Council of the EU
February 2023 - Present

Representing Bulgarian youth at the EU Youth Conferences under the EU Youth Dialogue. Working with data from national consultations and participating in debates and working groups to make a recommendation to the Council of the EU on a common framework for youth participation in decision-making on a local level. Working with national institutions to on implementing the recommendations made at the EU Youth Conference on a local level.

EU Youth Stakeholders Group | NYC Rep
January 2025 - Present

Representing Bulgarian youth through the National Youth Forum of Bulgaria at the EU Youth Stakeholders Group, established by the European Commission, to help engage youth organisations, national youth councils, youth researchers, Member State representatives, and EU institutions in advancing youth policy.

National Student Parliament of Bulgaria Plovdiv, Bulgaria

Founder & Project Coordinator
September 2018 - Present

Establishing a platform for dialogue between students and educational and youth institutions in Bulgaria and fighting the alienation of student councils from policy-making processes in support of the full implementation of the EU Youth Strategy.

Bulgarian Youth Delegates to the UN Bulgaria

Public Relations (PR)
October 2018 - December 2021

Responsible for the image of the Youth Delegates online and in media. Preparing speeches, drafting press releases, and working on online posts and videos.

Astra Forum Foundation Sofia, Bulgaria

Science communicator
January 2021 - September 2022

Fighting disinformation, communicating the science of the pandemic and the vaccines against COVID-19. Supporting the Bulgarian government in the development of a vaccination communication strategy. Participating in research into disinformation.

Volunteering

NEXT Station Sofia, Bulgaria

Science Author
October 2021 - Present

Creating content (article & infographics) to share breakthroughs in science and technology.

EU Neighbours East Project European Union/Bulgaria

Young European Ambassador
August 2019 - December 2020

Big Brothers Big Sisters of Bulgaria Assoc. Plovdiv, Bulgaria

Volunteer, Event Organizer & Mentor
September 2016 - present

Plovdiv 2019 Foundation Plovdiv, Bulgaria

Photography & Videography Department Head & Mentor
October 2018 - January 2020