

## Vladimir Kitanovski



**Email:** [vladimirkitanovski909@gmail.com](mailto:vladimirkitanovski909@gmail.com) **Website:** <https://vladimirkitanovski.com>

**LinkedIn:** [linkedin.com/in/vladimirkitanovski909/](https://www.linkedin.com/in/vladimirkitanovski909/) **GitHub:** [github.com/VladimirK909](https://github.com/VladimirK909)

**Permanently based in:** 1000 Skopje, North Macedonia

**Currently based in:** 3000 Leuven, Belgium

### FORMAL EDUCATION

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- 1. Master of Nanoscience, Nanotechnology and Nanoengineering - Quantum Engineering, Materials and Technology (120 ECTS)**  
Katholieke Universiteit Leuven, Faculty of Engineering Science, *September 2024 – Ongoing (July 2026)*
- 2. BSc in Electrical Engineering, in Computer System Engineering Automation and Robotics (240 ECTS)**  
Ss. Cyril and Methodius University in Skopje – Faculty of Electrical Engineering and Information Technologies (FEEIT), *October 2020 – August 2024*
- 3. Erasmus+ Exchange Programme – Katholieke Universiteit Leuven, Belgium**  
February 2024 to July 2024, last semester of Bachelor's degree at the Faculty of Engineering Science
- 4. International Baccalaureate Diploma Programme (IBDP)**  
Educational Institution: NOVA International Schools, *2018 – 2020*  
Extended Essay in Mathematics, titled: Estimating Definite High-dimensional Integrals Using Monte Carlo Integration
- 5. State Issued High School Diploma**  
Educational Institution: NOVA International Schools, *2016 – 2020*

### NON-FORMAL EDUCATION

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- 1. Additive Manufacturing course – FEEIT Fab Lab, May 2023**  
I participated in a course organized by my faculty's Fab Lab where I honed my 3D modelling and 3D printing skills.
- 2. Diogenes Summer School, September 2022**  
I attended a summer school organized by the Electronics Institute of my faculty. We learned about detecting humans in videos using deep learning. At the end, we developed a CNN for detecting humans in a video dataset.
- 3. Where Science Meets Cosmos – BEST Course in Summer, July 2022**  
I attended a summer course in Gdansk, Poland on the topic of space technologies. The course was organized by the Board of European Students in Gdansk and had lectures by people from academia as well as industry.
- 4. Pioneer Academics – International Relations, March 2018 – August 2018**  
I wrote a research paper in the field of International Relations, titled "Does International Intervention "Force" Peace When Trying to Resolve an Ethnic Conflict?" In the paper, I quantitatively explored the relationship between international humanitarian interventions and peacekeeping in ethnic conflicts.
- 5. Petnica Science Center – Astronomy Seminar Cycle, 2017 – 2018**  
I was conducting mentored research in Astronomy, specifically simulating a hypothetical asteroid mining scenario in Python using a gravitational potential model of the 101955 Bennu asteroid. The result was a complete landing and take-off Python simulation of a mining spacecraft starting from a stable parking orbit around the 101955 Bennu asteroid.

### PROFESSIONAL EXPERIENCE

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- 1. Laboratory Assistant Internship, June 2023 – February 2024**  
Company: **Laboratory for Automation and Systems Engineering at FEEIT**  
Website: <https://feit.ukim.edu.mk/en/laboratories/laboratory-of-automation-and-system-engineering/>  
Description: I was working as a lab assistant intern at the Lab. for Automation and Sys. Eng. at my faculty. I mainly worked on safety systems for a Mitsubishi RV-2F-Q robotic arm and other general lab work such as equipment maintenance and testing, inventory tracking, and working on the lab's online presence.

- 2. Facial Expression Recognition Research Internship**, June 2023 – October 2023  
Company: **Emteq Labs**, website: <https://www.emteqlabs.com/>  
Description: I participated in the successful development of a machine learning pipeline for facial expression recognition using facial landmarks extracted from raw video data for Emteq Labs.
- 3. Development Consultant**, part time, December 2020 – Present  
Company: **Kitanovski & D2EM**, website: [www.mihailkitanovski.online](http://www.mihailkitanovski.online)  
Description: As a part time development consultant, I conduct research pertaining to current and upcoming projects and directly participate in the development of mathematical, statistical, and organizational solutions for a wide range of business applications.

## ACADEMIC PUBLICATIONS AND CONFERENCES

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- Kitanovski, V., Milanoski, M., Zajkov, M., Jovanovski, N., Todorovska, D., Bachvarovski, T., & Gerazov, B. (2023). Building an assistive keyboard through project-based education. ICITS2023 - 16th International Computer and Instructional Technologies Symposium.
- Kitanovski, Vladimir & Kotevski, Andrej (2022). Weather variability constraints on the reliability of solar and wind power in North Macedonia. Student Conference Energy Efficiency and Sustainable Development, 55-62
- Kitanovski, Vladimir, & Kitanovski, Mihail (2021). Identifying security threats: A new business methodology using Securitization Theory. INTERNATIONAL Scientific-Professional Conference - Security and Crisis Management - Theory and Practice SeCMan 2021, 158–165.

## NON-ACADEMIC PUBLICATIONS

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- The Uneven Bargains of Religion – Strange Voices from the Heartland**, October 2022  
Entry in collection of essays on religion in the contemporary culture of Central and Eastern Europe
- Ethics – Employing Moral Philosophy in Business Processes and Decision-Making**, May 2021  
Magazine article: Le Monde Diplomatique, Macedonian edition

## AWARDS AND HONORS

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- Research grant awarded for participation in a conference in Eskisehir, Turkiye**, October 2023  
Title: Building an Assistive Keyboard through Project-Based Education  
Awarded by: The European Cooperation in Science and Technology (COST)
- European BEST Engineering Competition Regional Round – third place**, May 2022  
Together with my team of four students, we won third place on the regional round of the 2022 European BEST Engineering Competition (EBEC), organized by BEST Maribor in Maribor, Slovenia. We were tasked with solving multiple engineering problems while competing with teams from the Balkans and Central Europe.
- European BEST Engineering Competition - Local Round Winner**, March 2022  
Together with my team of four students, we won the local round of the 2022 European BEST Engineering Competition (EBEC), organized by the Board of European Students of Technology Skopje (BEST Skopje) in the Case Study category by conceptually designing a machine learning based robotic box unloader for freight trucks.
- Strange Voices from the Heartland Essay Competition – Second Place**, September 2021  
I won second place in the 'Strange Voices from the Heartland' international essay competition with my essay titled 'The Uneven Bargains of Religion - Disparity between Religious Identification and Religious Involvement in North Macedonia'. The Angelicum University in Rome published the essay in a collection mentioned above.
- Scholarship Recipient**, November 2021 – July 2024  
The Ministry of Education and Science awarded me a scholarship for undergraduate students with demonstrated academic success and excellence.
- Admission and Scholarship - Pioneer Academics**, March 2018  
I was admitted and received a full scholarship for Pioneer Academics because of my academic excellence.
- Boris Trajkovski Scholarship Recipient**, April 2016 – June 2020  
I was awarded the full Boris Trajkovski Scholarship for my high school studies at NOVA International Schools. I was selected from a national pool of candidates.

## LANGUAGES

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<b>Macedonian</b>	Native proficiency – mother tongue	<b>French</b>	Advanced proficiency
<b>English</b>	Bilingual proficiency	<b>Russian</b>	Advanced proficiency
<b>Serbian</b>	Professional working proficiency	<b>German</b>	Intermediate proficiency
<b>Croatian</b>	Professional working proficiency	<b>Chinese</b>	Basic proficiency

## **VOLUNTEERING AND PROJECTS**

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- 1. Leader of the Duckietown Robotics Lab team – FEEIT**, October 2023 – February 2024  
I am the leader of the team creating a mobile robotics lab at my faculty, where I help organize the process for designing and assembling the lab. I assumed this role because of my position as a Laboratory Assistant Intern.
- 2. Assistive Keyboard Design – FEEIT Fab Lab**, March 2023 – February 2024  
I am part of the design team for a split ortholinear custom mechanical keyboard, which is designed to make computer work accessible for children with motor disabilities. The project is part of my faculty's Fab Lab in cooperation with Open The Windows – the only assistive technologies NGO in the Western Balkans.
- 3. Sanitary Pad Dispenser Design**, February 2023 – May 2023  
I designed a sanitary pad dispenser using 3D modelling for an initiative by my faculty's student assembly to have free sanitary pads in the bathrooms. I also participated in the 3D printing and physical installation of the dispensers.
- 4. Main Organizer of the Engineering Competition IN**, September 2022 – December 2022  
I was the main organizer of the local Engineering Competition IN organized by BEST Skopje
- 5. Elected member of the University Student Assembly at my university**, April 2022 – December 2022  
I was one of the two elected representatives for my faculty at the University Student Assembly, where I participated in a variety of activities pertaining to student life from an academic and social aspect.
- 6. Elected member of the Faculty Student Assembly at FEEIT**, December 2021 – December 2022  
I was one of the seventeen elected members of the Faculty Student Assembly at the Faculty of Electrical Engineering and Information Technology (FEEIT) tasked with representing the student body.
- 7. Part of the Brucoshka@FEEIT main organizing team**, June 2022 – October 2022  
We organized the biggest student music festival in the country. The festival happened on campus and welcomed more than 6000 people with seven bands on two stages.
- 8. President of the Education and Science Commission of the Faculty Student Assembly at FEEIT**, December 2021 – December 2022  
I was president of the Education and Science Commission of the Faculty Student Assembly. The commission deals with improving the educational process and research involvement of all students, as well as organizing student conferences and events related to education and science.
- 9. Elected member of the Teaching and Science Council at FEEIT**, January 2022 – January 2023  
I was one of the seven elected students who participate in the Teaching and Science Council - a monthly meeting where all professors and researchers are present and make decisions about the Faculty.
- 10. Main Organizer and Speaker/Moderator of the Science@FEEIT Student Conference**, April 2022
- 11. Speaker/Moderator and part of the organizing team of the Tech@FEEIT Student Conference**, April 2022
- 12. Young member at the Board of European Student of Technology in Skopje, North Macedonia (BEST Skopje)**, April 2022 - Present
- 13. Participants Responsible for the 2022 BEST Course in Summer in BEST Skopje**, March 2022

## **HOBBIES**

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• Music production, playing a variety of musical instruments • Creative coding • Recreational swimming • Cooking • Jewelry-making • Reading • Essay writing • Learning Languages