

Experience

- Thermo Fisher Scientific – Software Engineer

January 2025 - Present

R&D for semiconductor TEM and STEM electron microscopy applications

Eindhoven, Netherlands

- R&D Engineer:

Working on research and development for TEM and STEM microscopes, focusing on semiconductor applications. Contributing to the innovation of automation, imaging, and analysis systems.
- Tvarutis – Software Engineer

January 2025 - Present

Backend Development, Embedded Firmware

Lithuania

- Founding Engineer:

AI-powered business platform that streamlines company reporting through smart data parsing, dashboard analytics, and automated reporting document generation. The system integrates sustainability metrics and regulatory compliance features, enabling data-driven decision-making.
- WeHeat – Software Engineer

August 2023 - January 2025

Backend Development, Embedded Firmware

Duizel, Netherlands

- Embedded Firmware (August 2024 - January 2025):

Developed and optimized firmware for heat pump systems, focusing on communication protocols (STK500, ProtoBuf, MQTT) using C, C++, Assembly, and ARM-based STM microcontrollers.

- Backend Development (November 2023 - August 2024):

Contributed to backend development using C# .NET, MongoDB, PostgreSQL, and Docker, ensuring seamless integration between firmware and software.
- SensUs Biosensor Development Competition

August 2022 - March 2024

Chair / Technology Department Member

Netherlands, Eindhoven University of Technology - Honors program

- Chair (September 2023 – March 2024):

Directed the competition’s organization, coordinating efforts across multiple teams and departments.

- Technology Department Member (August 2022 – September 2023):

Played a key role in developing and implementing the technical infrastructure.

Education

- Bachelor of Science in Computer Science and Engineering

2021-2024

Eindhoven University of Technology (QS World Ranking top 60)

Honors Program
- Iacocca Global Village Program

May 2022 - November 2022

Lehigh University

Certificate
- Future Leaders Exchange (FLEX) Program

2019-2020

U.S. Department of State

Certificate

Achievements

- 3rd PlaceLithuanian Olympiad in Informatics

2018/2019
- 3rd PlaceLithuanian Olympiad in Informatics (Age Group)

2017/2018
- Represented LithuaniaEuropean Junior Olympiad in Informatics

2017/2018

Skills

Languages: English, Lithuanian (native), Russian (second native), Ukrainian (professional working)  
Soft Skills: Leadership, Problem Solving, Adaptability

Hobbies

Passionate about autonomous systems, I've created intelligent driving software for vehicles, self-plowing tractors, and quadcopters—integrating cameras, lasers, and microcontrollers. Running is my daily ritual, keeping me focused and energized.  
More: <https://vladislavbudiak.github.io/projects>