Vladislav Budiak

Software Engineer
Bachelor in Computer Science and Engineering with Honors

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LinkedIn

Experience

•Thermo Fisher Scientific, Netherlands – Software Engineer
R&D for emiconductor TEM and STEM electron microscopy applications

January 2025 - Present
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.

•WeHeat, Netherlands – Software Engineer
Backend Development, Embedded Firmware

August 2023 - January 2025
Duizel, Netherlands

- **Embedded Firmware (August 2024 - Present)**: 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 Student Competition
Chair / Technology Department Member

August 2022 - March 2024
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
Eindhoven University of Technology

2021-2024
Honors Program

•Iacocca Global Village Program
Lehigh University

May 2022 - November 2022
Certificate

•Future Leaders Exchange (FLEX) Program
U.S. Department of State

2019-2020
Certificate

•Farmer's Certificate
The Chamber of Agriculture of the Republic of Lithuania

September 2022 - May 2033
Agriculture, Agriculture Operations, and Related Sciences

Achievements

•3rd Place Lithuanian Olympiad in Informatics — *2018/2019*

•3rd Place Lithuanian Olympiad in Informatics (Age Group) — *2017/2018*

•Represented Lithuania European Junior Olympiad in Informatics — *2017/2018*

Skills

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

Summary

I am an R&D engineer at Thermo Fisher Scientific, contributing to the development of TEM and STEM microscopes for semiconductor applications. I graduated with honors in Computer Science and Engineering from Eindhoven University of Technology and have a strong foundation in informatics, earning third place at the Lithuanian Olympiad in Informatics.

Leadership experience includes the Iacocca Global Village at Lehigh University and the Future Leaders Exchange (FLEX) Program, sponsored by the US Department of State. Fluent in English, Lithuanian, Russian, and basic Ukrainian. 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