

Sanzhar Shakarim

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EDUCATION

Carnegie Mellon University

Master of Engineering and Technology Innovation Management

GPA: 3.67/4.00

Pittsburgh, Pennsylvania

12/2024

Nazarbayev University

Bachelor of Electrical and Computer Engineering

Dean's list [Fall, 2019, Fall 2022]

GPA: 3.39/4.00

Astana, Kazakhstan

05/2023

SKILLS

- Outstanding leadership, communication, organization, problem-solving and computer skills (Rust, Matlab/Simulink, Svelte, MS office)
 - **Languages:** English (Fluent), Russian (Fluent), Kazakh (Native Speaker)
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RESEARCH EXPERIENCE AND PROJECTS

Wabtec Corporation

Software Engineering Intern

Erie, Pennsylvania

05/2024 – 08/2024

- Led a project to upgrade Matlab/Simulink to the latest version, implemented a new DDS Blockset, and validated compatibility with existing software models and code.
- Evaluated and compared two requirement management tools for a company-wide deployment to manage over 10,500 Simulink requirements.

Nazarbayev University

Research Assistant

Astana, Kazakhstan

09/2021 – 11/2023

- Led a project team that published an IEEE paper (as first author) on a microfluidic device sensor integration, as part of a larger 3-year, \$100,000 government-funded project.
- Focused on developing innovative designs to grow various cell lines for the organ-on-a-chip device with integrated oxygen and CO2 sensors.

Samruk Energo – Digital Transformation Department

Electrical Engineering Intern

Astana, Kazakhstan

11/2021 – 01/2022

- Conducted vibration analysis of different blocks in one of the largest power plants in Kazakhstan, with a total installed capacity of 4,000 MW.
 - Presented findings to senior management for deployment.
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CONFERENCES

S. Shakarim, D. Tosi and G. Kulsharova, "Integration of fiber optic sensors in organ-on-a-chip devices towards label-free cell viability assays," 2022 IEEE Sensors Applications Symposium (SAS), Sundsvall, Sweden, 2022, pp. 1-6, doi: 10.1109/SAS54819.2022.9881355.

ADDITIONAL EXPERIENCE

Shkolkovo educational portal for the exam preparation

Main tutor

Online, Moscow, Russia

08/2020 – 05/2021

- Delivered live video lessons on YouTube channel:
<https://www.youtube.com/channel/UC8wRIAeVrYfIABTtP4dk5TQ>
- 90% of students informed that these lessons helped them to enroll top universities

VOLUNTEER WORK

- Involved in organizations of Harvard College Conference in Astana, Kazakhstan [HPAIR 2019]
- Managed several concerts of pop artists (Ivan Dorn, Ninety One, Jah Khalib)