

# Saidnassimov Darkhan

## Software Design Engineer

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## Summary

Self-driven software engineer with 4 years of professional experience developing and delivering software-based solutions. Interested in automation and digitization of day-to-day applications using state-of-the-art machine learning methodologies.

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## Work Experience

### Software Design Engineer, ABB, Helsinki, Finland

Nov 2022 - present

- Designing the architecture of the Energy Management solution back-end.
- Developed anomaly detection and forecasting application plugins for the Energy Management software and maintained its core functionality.
- Skills: C#.NET, RTDB (time-series database), REST API, Azure DevOps, batch scripting.

### Thesis Worker, Metso:Outotec, Espoo, Finland

Jan 2022 - Aug 2022

- Developed an algorithm to recognize real-life equipment items using rendered images of the corresponding 3D models, achieving mAP of 69.57% using a custom industrial dataset.
- Research areas: deep learning, cross-domain object detection, transfer learning, continual learning.

### Software Developer, Redrakon, Espoo, Finland

Oct 2021 - Jan 2022(out of business)

- Maintained a computer vision application in a startup environment.
- Skills: Python, RaspberryPi, OpenVINO, Intel NCS2, OpenCV

### Jr. Software Engineer, Raute Oyj, Lahti, Finland

July 2018 - July 2021

- Standardized the industrial data collection system through a thesis project.
  - Completed on and off-site installations of data collection PLC systems in 10+ plywood mills
  - Developed and maintained a C# user interface for a sheet feeder, later used in 2+ customer mills.
  - Skills: TIA, Step7, PLC, C#.NET, Nginx
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## Education

### Aalto University, Espoo, Finland

Sep 2020 - July 2022

- M.Sc. in Automation and Electrical Engineering, Major in Control, Robotics and Autonomous Systems
- Thesis topic: Equipment identification through image recognition for Metso:Outotec (2022)

### HAMK University of Applied Sciences, Valkeakoski, Finland

Sep 2015 - Feb 2019

- B.Eng. in Electrical and Automation Engineering
  - Exchange studies at the University of Dundee, Scotland, UK (2018)
  - Thesis topic: Standardization of MillSIGHTS data collection and reporting system for Raute Oyj (2019)
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## Skills

- **Programming Languages:** C#.NET, Python, SQL, Matlab
- **Technologies:** Git, Linux, Step7, TIA, Rest API, Latex, MS Office
- **Soft skills:** Agile/Scrum, presentation skills
- **Languages:** Kazakh (native), Russian (native), English (fluent, IELTS 7.0), Finnish (B1, YKI-certified)
- **Other certifications:** Valid Finnish occupational safety card, Driving license (B)