

Saidnassimov Darkhan

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Summary

Self-driven engineer with 4 years of professional experience in developing and delivering software-based solutions. Interested in automation and digitalization of day-to-day applications.

Work Experience

Thesis worker, Metso:Outotec, Espoo, Finland **Jan 2022 - Present**

- Successfully developed an algorithm to recognize real-life equipment items using rendered images of the corresponding 3D models. The algorithm achieved mAP of 69.57% using a custom industrial dataset
- Area of expertise: deep learning, cross-domain object detection, transfer learning, continual learning

Software Developer, Redrakon, Espoo, Finland **Oct 2021 - Jan 2022**

- Independently maintained a computer vision application in a startup environment
- An edge app was used to automatically collect measurable quantities of the target audience for the media industry
- The company went out of business early January 2022

Jr. Software Engineer, Raute Oyj, Lahti, Finland **July 2018 - July 2021**

- Completed a thesis project to standardize the industrial data collection system
- Installed data collection systems on 10+ plywood mills and completed multiple installation visits to customer plants in Finland and abroad
- Completed XY-charger start-ups and Gocator laser calibrations in a team of 3 people
- Independently developed and maintained a user interface for a sheet feeder using C#. The app was later used in 2+ customer mills

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 in the University of Dundee, Scotland, UK (2018)
- Thesis topic: Standardization of MillSIGHTS data collection and reporting system for Raute Oyj (2019)

Skills

Programming Languages: Python, C#.NET, SQL, Matlab

Technologies: Git, Linux, Nginx, Step7, TIA, ROS, HTML, CSS, PyTorch, scikit-learn, OpenCV, Detectron2, YOLO, Flask, Rest API, Docker, Raspberri Pi, Intel NCS2, OpenVINO, Arduino, Latex, MS Office

Languages: Kazakh (native), Russian (native), English (fluent, IELTS 7.0), Finnish (A3)

Other competences

Valid Finnish occupational safety card, Driving license (B), Covid-vaccinated (Pfizer 3/3)