



## CONTACT

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Portfolio: llavrih.github.io

## FIELDS

Robotics  
Computer Vision  
Industrial Automation  
Robot-Camera Systems

## SKILLS

### Programming

- Python
- C++
- Git
- NumPy

### Robotics

- ROS / ROS2
- ABB and Yaskawa robots
- RobotStudio
- Robotic cells

### Computer Vision

- OpenCV
- Open3D
- Robot-camera systems
- Computer vision automation

### Industrial Automation

- Siemens PLCs
- TIA Portal
- Machine testing
- System commissioning support

### Languages

- Slovenian
- English
- Dutch
- Serbo-Croatian
- German

# Lenart Lavrih

Robotics Engineer

Robotics • Computer Vision • Industrial Automation

## PROFILE

Robotics engineer with hands-on experience in industrial robotic cells, computer vision, ROS/ROS2, Siemens PLCs, industrial robots, and robot-camera systems. I have experience developing software for PLCs and robots used in machines that are part of production lines. My work includes software development, factory testing, commissioning support, and on-site troubleshooting. I am used to close collaboration with electrical engineers, mechanical engineers, and designers to improve machine performance, EPLAN documentation, robotic tooling, and overall system efficiency.

## WORK EXPERIENCE

### Robotics Specialist

Apr. 2024 – Present

Royal Kaak, Netherlands

- Development, testing, and debugging of PLC and robot software for machines in the food industry integrated into automated production lines.
- Working with Siemens PLCs, ABB and Yaskawa robots, robotic cells, and robot-camera systems.
- Support for factory testing, machine diagnostics, system commissioning, and on-site troubleshooting.
- Collaboration with electrical engineers, mechanical engineers, and designers to improve EPLAN documentation, robotic tooling, and machine performance.
- Integration of software, computer vision systems, PLC logic, and robot motion into reliable industrial automation solutions.

### ROS Developer

Oct. 2023 – Dec. 2023

IHS Systems, Slovenia

- Worked on robotic perception, system integration, and autonomous robot behavior testing.
- Integrated software modules into a functional robotic system for autonomous operation.

### ROS Development Intern

Oct. 2022 – Sep. 2023

IHS Systems, Slovenia

- Developed and tested computer vision components for an autonomous robot.
- Worked in robotic perception, image processing, and robot-environment interaction.
- Supported testing and validation of computer vision functionality in practical robotic scenarios.

### Robotics Software Development Intern

Jun. 2021 – Oct. 2022

RLS Merilna tehnika d. o. o., Slovenia

- Developed a ROS2 framework for a dedicated robotic platform.
- Worked on software architecture, robot communication, and system component integration.

- Gained practical experience in ROS2-based robotics software development.

## EDUCATION

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**Master's Degree in Robotics** 2021 - 2023  
*University of Ljubljana, Faculty of Electrical Engineering*

**Bachelor's Degree in Automation Engineering** 2018 - 2021  
*University of Ljubljana, Faculty of Electrical Engineering*

## STRENGTHS

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- Practical approach to diagnostics and troubleshooting in complex robotic, PLC, and vision-guided automation systems.
- Experience integrating software, computer vision systems, PLC logic, and robot motion.
- Effective collaboration with software, electrical, mechanical, and production teams.
- Hands-on approach to testing, commissioning, troubleshooting, and continuous system improvement.

## HOBBIES

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- Endurance sports, especially running and triathlon.
- I ran my first marathon in 2024 and completed a full Ironman in 2025.
- I occasionally play guitar in a music group.