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LOCATION
Riga, Latvia

DRIVER'S LICENCE
Category B (since 11.2022)

LINKEDIN
linkedin.com/in/daniels-skots-lavs

GITHUB
github.com/Lavs-Daniels-Skots-231RMC173

TECHNICAL SKILLS

CAD & 3D MODELLING
AutoCAD · SolidWorks · Fusion 360

ROBOTICS & SIMULATION
ABB RobotStudio (RAPID, Smart Components)
· ROS 2 Jazzy · MoveIt · ros2_control · LeRobot
· Linux (Ubuntu) · CNC Simulator Pro

PLC & AUTOMATION
Siemens TIA Portal · Step7 · LOGO! (FBD) ·
GRAFCET · FluidSIM · CODESYS

ELECTRICAL SCHEMATICS
EPLAN · pneumatic & electrohydraulic
schematics

MICROCONTROLLERS & ELECTRONICS
Atmel AVR (C, Microchip Studio) · Arduino ·
Proteus · PSIM

PROGRAMMING
Python · C / C++ · SQL · Flask · Jupyter /
NumPy

METROLOGY
Mitutoyo Contracer CV-2100 · Surftest SJ-210 ·
Roundtest RA-120P · GD&T

LANGUAGES

Russian	Native
Latvian	C1 reading & writing, B2 spoken
English	C1 reading & writing, B2 spoken

CERTIFICATIONS

- Industrial pneumatic & electropneumatic systems
- Industrial hydraulic & electrohydraulic systems
- Work at heights 1.5–5 m
- Personnel lift operation
- Lean & Quality 2026
- Thermal-oil system operating safety

Daniels Skots Lavs

Mechatronics Student · Industrial Electronics Technician

PROFILE

Fourth-year Mechatronics student at Riga Technical University (GPA 9.21 / 10) working in parallel as an industrial electronics technician at Latvijas Finieris. Hands-on experience with industrial equipment maintenance and a broad portfolio of academic projects in robotics, PLC programming, embedded systems and precision metrology.

EXPERIENCE

Industrial Electronics Technician 09.2025 – present
Latvijas Finieris, Riga

Service industrial electronics on production lines — rectifiers, voltage regulators, sensor systems, variable-frequency drives. Diagnose faults using multimeter and oscilloscope, replace failed components on live equipment, document maintenance actions. Work directly with the equipment families covered by my RTU coursework, closing the loop between theory and the factory floor.

Electrical Maintenance Technician 06.2025 – 08.2025
Latvijas Finieris, Riga · summer placement

Three-month onboarding into the electrical maintenance team — shadowing then assisting senior technicians on preventive and corrective work across production lines. Transitioned to the full Industrial Electronics Technician role in September.

EDUCATION

B.Sc. Mechatronics · Riga Technical University 2023 – 2027
GPA 9.21 / 10 · 4th year

Secondary education · Daugavpils Centra vidusskola 2010 – 2023
Advanced courses in Physics and Robotics · school projects & olympiads

SELECTED PROJECTS

- ★ **FESTO MPS station — repair, EPLAN schematics & documentation (flagship)**
RTU · team project · real broken equipment, not a simulation
Returned a non-working Festo MPS training cell to service. Drew full EPLAN electrical & PLC schematics from scratch, four pneumatic sheets and a ~2 600-word LV maintenance handbook with a custom [Zone][Class][Number] tagging convention, PLC I/O map and alarm list. The closest project in this portfolio to real industrial maintenance — and to my Latvijas Finieris role.
- ★ **SO-101 robot arm — ROS 2 + MoveIt real-hardware bring-up**
Ubuntu 24.04 · ROS 2 Jazzy · MoveIt · ros2_control · LeRobot · real hardware, in progress
Real dual-arm SO-101 (6 Feetech servos/arm, 2 cameras). LeRobot branch — 59 Hz leader–follower teleop, a 2-camera dataset and an ACT imitation-learning policy (ResNet-18, 5 000 steps) trained and published to Hugging Face. ROS 2 branch (native Ubuntu 24.04 + Jazzy) — a full ros2_control + MoveIt stack stood up and exercised on the real arm; end-to-end pose correctness still being reconciled (calibration is a chain from servo EEPROM through URDF to MoveIt).
- WPL_Station — three-robot welding & palletizing line**
ABB RobotStudio · RAPID · multi-controller
Three ABB robots (IRB 2600 / 1660ID / 460) cooperating on three independent virtual controllers. Adaptive HIGH/LOW weld-path selection from a height sensor; pallet-grid placement via DIV/MOD coordinate math; full cycle of 12 parts validated.
- AVR DC-motor controller (open-loop speed control)**
Microchip Studio + Proteus · register-level C · 2025