

Lukasz Michalski

website

EXPERIENCE	CERN European Organization for Nuclear Research Sep 2024 RESEARCH STUDENT Real-time physics algorithms for jet clustering, tagging, and rare event detection at the CMS experiment.
	Intel Dec 2023 - Aug 2024 MACHINE LEARNING ENGINEER INTERN Developed AI algorithms for visual corruption detection in DirectX 3D and anomaly detection in GPU driver testing.
	Nokia Dec 2021 - Nov 2023 PYTHON SOFTWARE ENGINEER WORKING STUDENT Contributed to internal tools for eNB log analysis and an in-house source code management system for SoC hardware.

PUBLICATIONS	International Journal of Electronics and Telecommunications 2025 <i>Efficiency Analysis of Parallel Swarm Intelligence Using Rapid Range Search in Euclidean Space</i> , L. Michalski, A. Soltysik, M. Woda
	International Conference on Dependability of Computer Systems 2024 <i>Parallel Swarm Intelligence: Efficiency Study with Fast Range Search in Euclidean Space</i> , L. Michalski, A. Soltysik, M. Woda (Oral Presentation)

RESEARCH PROJECTS	PWR Racing Team RT15E AUTONOMOUS SYSTEM ENGINEER 2025 <i>Real Time Computer Vision System for Cone Detection</i>
	RT14E AUTONOMOUS SYSTEM ENGINEER 2024 <i>Dense Graph Network based Path Planning Algorithm with Geometric Raceline Optimization</i>
	RT13E PAH PLANNING ENGINEER 2023 <i>Path Planning Algorithms for Autonomous Formula Student Vehicle</i>

EDUCATION	Masters of Science Artificial Intelligence Mar 2024 - Jul 2025 Wroclaw University of Science and Technology, Poland
	Bachelor of Computer Engineering Sep 2020 - Jan 2024 Wroclaw University of Science and Technology, Poland

CERTIFICATES	Building Real-Time Video AI Applications NVIDIA
	Applications of AI for Anomaly Detection NVIDIA
	Fundamentals of Accelerated Computing with CUDA Python NVIDIA

SKILLS	C++ • CUDA • Python • PyTorch • ROS2 • Git • Linux
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