RÓBERT ROHRSETZER

Mechatronics engineer

EXPERIENCE

UNIVERSITY GROUP PROJECT (2025)
(TURTLEBOT ROS2 & DEEP LEARNING)

- **Project Scope:** Development of an autonomous driving simulation for a TurtleBot using visual lane detection
- Demo video (Youtube link)

SAP-Raforgó kft. (2024, Part time)

- **Task:** Program code tester in SAP-EWM customer own applications

INTERNSHIP (2023 JULY - 2024 JANUARY)

AVL Hungary Kft.

- **Tools & Technologies:** Utilized MATLAB and Simulink for engineering simulation and modeling tasks
- **Bsc Thesis Topic:** Examining various electric vehicle powertrain configurations and comparing their efficiency in different driving scenarios.

EDUCATION

2024 - 2026
Budapest University of technology and economics

Mechatronics MSc.

- **Specialisation for Intelligent Embedded Mechatronics Systems**

Master's Thesis: Application of Deep Learning in a Physics-Informed Environment [GitHub link]

- **Framework:** Developed a modular deep learning framework in Python using PyTorch and PyTorch Lightning.

10/2022 - 02/2023
Karlsruhe Institute of Technology

Erasmus+ Scholarship

2020 - 2024
Budapest University of technology and economics

Mechatronics Engineering BSc.

- **German language degree program**

CONTACT

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2030, Érd, Etelka u. 9

Github Profile

Linkedin Profile

LANGUAGES

English (C1)

German (C1)

SKILLS

- **Programming:** C++, Python
- **Deep Learning & AI**: Python, PyTorch, PyTorch Lightning
- **Simulation & Analysis:** MATLAB/Simulink, Ansys
- **CAD & 3D:** Solid Edge, Blender
- **Tools:** Git/GitHub, PyCharm, Visual Studio, MS Office

INTERESTS

- Robotics & Humanoid robotics
- AI & Machine learning
- Computer vision
- Autonomous Systems