Maxim-Leonid Rezan

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Citizenship: Romanian Moldovan

About me

Systems & Control student with a Mechanical Engineering background, specializing in designing and optimizing dynamic systems. Passionate about automation, robotics, and process control, applying advanced engineering principles to real-world challenges. International experience across multidisciplinary fields, combining software and hardware expertise to develop innovative solutions.

Languages

- Romanian - Native
- Russian - Bilingual
- English - Fluent
- Dutch - A2 Conversational

Hard Skills

- SolidWorks
- LaTeX
- MATLAB
- Git
- GaBi: Life Cycle Analysis tool
- Ansys Granta: Material Selection tool
- Python (+libraries)
- Machine Learning
- Arduino
- Autodesk Moldflow
- Finite Element Analysis
- Manufacturing
- C++
- Linux
- GitLab CI/CD
- Driving license B

Hobbies

- Volleyball (Beach/Indoor)
- Piano
- Guitar
- Gym

Education

MSc Systems & Control | TU Delft | www.tudelft.nl [Sep 2024 - Jul 2026]

- Digital Control
- Robust Control
- Model Predictive Control
- Filtering & Identification
- Signal Processing
- Machine Learning
- Control Systems
- Optimization

Specializing in designing and optimizing complex dynamic systems. My focus is on developing innovative solutions for automation, robotics, and process control, with a strong emphasis on applying advanced engineering principles to real-world challenges. This program aligns with my passion for creating efficient, sustainable, and intelligent systems in industries like manufacturing, energy, and transportation.

Erasmus Exchange Program | TU Wien Technische Universität Wien | www.tuwien.at [Oct 2023 - Feb 2024]

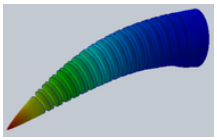
- Machine Learning
- Communication Networks
- Python
- Data Science
- Internet of Things

Broadened my engineering perspective by exploring new technological fields beyond my core studies. Gained international experience, adapting to different academic approaches and collaborating in a diverse environment. Strengthened problem-solving and analytical skills while integrating software and hardware concepts into my knowledge base.

BSc Mechanical Engineering | University of Twente. | www.utwente.nl [Sep 2021 - Jul 2024]

- Statics
- Dynamics
- Thermodynamics
- Heat Transfer
- Material Science
- Lifecycle Analysis
- Fluid Mechanics
- Finite Element Analysis
- Machine Elements
- Technical Product Definition
- Manufacturing Systems
- Production Management
- Workshop Manufacturing
- Group Projects
- Soft Skills

BSc Thesis: “Design of a flexible and steerable worm-like robot tip with high aspect ratio”



Final grade: 7.4

Developed a strong foundation in mechanical engineering, focusing on analyzing, designing, and optimizing mechanical systems. Gained hands-on experience in manufacturing, materials, and simulations, applying theoretical knowledge to real-world engineering challenges. Strengthened problem-solving, teamwork, and project management skills through group projects and practical applications.

Work

Teaching Assistant | Statics | University of Twente. [Sep 2022 - Nov 2022]

As a TA in Statics, I prepared and graded assignments and exams, and provided one-onone support to students. I facilitated tutorials, clarified complex concepts, and helped students develop problem-solving skills essential for understanding forces, moments, and equilibrium in mechanical systems.