

# Damján MIKLÓS

## Mechatronics Engineering Student

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### Experience



- Research Assistant**  
**BME Dept. of Hydrodynamic Systems, Hemo-Lab**  
*2024 – Present*  
Responsible for data analysis in aneurysm research and uncertainty quantification in simulation models using Dakota, Python and MATLAB. Built a virtual patient sampling algorithm in MATLAB.
- Online Tutor**  
**Superprof**  
*2023 – Present*  
Delivered over 1000 online tutoring hours in Math and Physics (English/Hungarian). Consistently ranked among the top tutors nationwide based on student feedback.
- Guest Student**  
**Eötvös Loránd University (ELTE)**  
*Spring 2023*  
Completed university-level Fourier Analysis lectures at the Faculty of Science by special permission from the teacher while attending high school.

### Software Skills



#### Operating Systems

Windows, Linux (WSL)

#### Engineering Software

Dakota, AutoCAD, Inventor, LabVIEW, MPLAB, Jupyter

#### Programming Languages

MATLAB, Python, C, C++, R, Wolfram Mathematica, Solidity

### Languages & Competencies



**English:** C1 Professional Working Proficiency

**German:** B2 Intermediate

**Hungarian:** Native

**Driving License:** Category C

### Education



- BSc in Mechatronics Engineering**  
**Budapest University of Technology and Economics (BME)**  
*2023 – Present*  
Faculty of Mechanical Engineering  
*Specialization:* Analysis of Mechatronic Structures  
*Track:* Advanced Mathematics Program
- High School Diploma**  
**ELTE Trefort Ágoston High School**  
*2017 – 2023*  
Specialization in Mathematics, Physics, and English

### Awards & Research



- 1st Place – Scientific Students' Conference 2025 (TDK Research Paper)**  
*BME Faculty of Mechanical Engineering*  
Paper: "Evaluating uncertainty quantification methods in a simplified aneurysm model"  
*+ GHK Special Award*
- 1st Place – Scientific Students' Conference 2024 (TDK Research Paper)**  
*BME Faculty of Economic and Social Sciences*  
Paper: "Irrationality in skewness preferences"  
*+ Morgan Stanley Best Paper on Economic Topics Award*  
*+ 3rd Place at National OTDK Finals 2025*
- 3rd Place – Keba Competition**  
*2023, National Economics round*

### Hobbies



**Cycling:** Ultra-endurance

**Tech:** Overclocking, Hardware enthusiast

**DIY:** Built a garden house