

Wael Al-Abwah

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EDUCATION

Karlsruhe Institute of Technology

Bachelor of Science (B.Sc.), Mechanical Engineering (International)

October 2022 - Present

EXPERIENCE

Karlsruhe Institute of Technology

Mechanical Design Tutor

October 2025 - March 2026

Karlsruhe, Germany

- Designed and led Mechanical Design tutorials covering technical drawings and machine elements
- Improved student understanding and performance in course assessments and exam preparation
- Developed structured teaching material, additional practice problems, and detailed engineering drawing solutions aligned with grading criteria

mu-zero HYPERLOOP e.V

Chairman and Chief Technology Officer

October 2024 - September 2025

Karlsruhe, Germany

- Achieved 5th place worldwide at EHW by leading a 49-member team developing a 5th-generation Hyperloop prototype
- Delivered a full-system prototype under strict constraints by driving design, manufacturing, budgeting, and sponsor coordination
- Accelerated cross-functional execution by coordinating engineering and operations teams under high-pressure timelines

mu-zero HYPERLOOP e.V

Technical Team Member – Propulsion and Guidance

October 2023 - September 2024

Karlsruhe, Germany

- Designed and integrated mechanical parts and interfaces for the Modular Guidance Unit (MGU) and test bench
- Contributed to a 2nd place finish in the EHW Complete System Award and securing multiple team awards (Community, Sustainable Legacies)
- Enabled prototyping and system validation by developing subsystem components and preparing the MGU test bench within a multidisciplinary engineering team

ADDITIONAL EXPERIENCE

Harvard Model Congress (Delegate) — Model United Nations (Chair) — Healthcare Volunteering

SKILLS

Software Autodesk Fusion, PTC Creo, Java, Maple, OpenFOAM
Languages English, Arabic