

Ziya Mehdiyev

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EDUCATION

University of Miskolc

PhD, Mechanical Engineering

Thesis: "Additive Manufacturing of Automotive Components"

Advisor: Prof. Dr. Csaba Felhő

Miskolc, Hungary

Sept. 2021 – June 2025

University of Miskolc

MSc, Mechanical Engineering, CAD/CAM specialization

Thesis: "Modelling, Testing and 3D Printing of Helical Gear for Different Materials"

Advisor: Dr. Kovács Péter Zoltán

GPA: 4.64/5

Miskolc, Hungary

Sept. 2019 – June 2021

Khazar University

BSc, Mechanical Engineering

GPA: 84/100

Baku, Azerbaijan

Sept. 2015 – July 2019

WORK EXPERIENCE

Khazar University

SolidWorks Instructor

Baku, Azerbaijan

Dec. 2021 – Present

- Provided technical instruction for Bachelor degree students in a mechanical engineering course – "3D CAD (SolidWorks)".
- Provided effective instruction to students online by preparing for each learning experience, providing supplemental materials to enhance lessons, and using effective evaluation methods to measure student performance.

Khazar University

Consultant for the "TEKNOFEST" projects

Baku, Azerbaijan

Jan. 2022 – Present

- TEKNOFEST is Turkey's and Azerbaijan's first and only technology festival that aims to arouse interest in technology throughout the society and raise awareness about transformation into a technology developing society with such activities as technology competitions, air shows, concerts, interviews on various topics, and various events.

University of Miskolc

Additive Manufacturing Intern

Miskolc, Hungary

July 2020 – Sept. 2020

- 3D printed of parts from PLA and ABS thermoplastics by using "Ultimaker Original +" 3D printer.
- Theoretical and practical learning of ball-on-disk sliding friction tests on 3D printed parts (by using "CETR – UNMT1" universal micro-nano materials tester).

Sumgait Technologies Park

Mechanical Engineer

Sumgait, Azerbaijan

Nov. 2018 – Aug. 2019

- Produced design and drawings of products using CAD software such as AutoCAD, SolidWorks, Siemens NX.
- Created 3D models for mechanical parts and assemblies that will be manufactured and wrote technical reports to summarise the design and manufacturing processes that were compliant with legal requirements and standards.

Caspian Engineers Society

Coordinator and Team Leader

Baku, Azerbaijan

Jan. 2018 – Jan. 2019

- Instructional leadership in coordinating all seminars and competitions held by the Caspian Engineers Society (CES) at different engineering universities.

- Forming smooth communications with experienced engineers to organize several seminars (to share their experiences and advice), workshops, trainings etc.

PUBLICATIONS & CONFERENCES

Publications:

L. P. Kiss, P. Jalalova, and **Z. Mehdiyev**. The planar buckling of pinned-fixed shallow arches. Journal of Theoretical and Applied Mechanics, Sofia, Vol.51 (2021) pp. 437-451.

Z. Mehdiyev, C Felhő and PZ Kovács. Investigation on 3D Printing Parameters of PLA Polymers for Gear Applications. Jármai, K., & Bolló, B. (Eds.). (2022). Vehicle and Automotive Engineering 4. Springer International Publishing. (forthcoming)

L. P. Kiss, **Z. Mehdiyev**, and P. Jalalova. Deformations and Internal Forces in Arches under a Concentrated Force. (under review)

Conferences:

P. Jalalova, and **Z. Mehdiyev**, "Non-Linear Stability Studies of Shallow Arches", Scientific Student Conference (TDK), University of Miskolc, Miskolc, Hungary, November, 2020

Z. Mehdiyev, and P. Jalalova, "Deformations and Internal Forces in Arches under a Concentrated Force", Scientific Student Conference (TDK), University of Miskolc, Miskolc, Hungary, April, 2021

SKILLS

Technical Skills:

- Microsoft Office Products
- AutoCAD 2D Design Proficiency
- SolidWorks and Siemens NX 3D CAD Modelling Software Proficiency
- Proficiency in using ANSYS software for finite element analysis.

Language Skills:

- Azerbaijani (Native or bilingual proficiency)
- Turkish (Full professional proficiency)
- English (Full professional proficiency)