

GÖKHAN GÜLSER

Mechanical Engineer

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SUMMARY

Mechanical Engineer pursuing an M.Sc. in Materials Science and Manufacturing, with core research interests in experimental mechanics, composite materials, mechanics of materials, and biomaterials. My current master's thesis focuses on the production and characterization of GNP/CNT-additive glass fiber-reinforced polyester composites. I currently hold positions as a Graduate Research Assistant at the ITU MEMS Research Center and a Teaching Assistant at Bahçeşehir University. I have firsthand experience in biomechanical implant design, lightweighting automotive composites, and mechanical characterization.

EDUCATION

Istanbul Technical University, Istanbul

September 2024-Present

M.Sc. Materials Science and Manufacturing | GPA: 3.29/4.0

- Graduate Research Assistant at ITU MEMS Research Centre
- Received a TÜBİTAK Graduate Research Scholarship
- Participated in the 'Laser-Based Additive Manufacturing' course in Polytechnical University of Madrid within the scope of ATHENS, an international student exchange program.
- Actively participated in the organization of the 8th International Conference on Materials Science and Nanotechnology: Bridging Sustainable Agriculture and Renewable Energy Technologies (MSNANO-25)

Thesis titled: Production and Characterization of Glass Fiber-Reinforced Polyester Matrix Composites with GNP/CNT Additives.

Istanbul Technical University, Istanbul

September 2019-July 2024

B.Sc. Mechanical Engineering | GPA: 3.21/4.0

Ranked in the top 10% of my class several times, I achieved recognition on the Dean's List and High Honor List multiple times for academic performance and dedication to excellence in my studies.

EXPERIENCE

Bahçeşehir University, Istanbul

October 2025-Present

Research Teaching Assistant

Held a RA/TA position in the Department of Mechatronics Engineering, Faculty of Engineering and Natural Sciences at Bahçeşehir University. Responsible for Q&A sessions of MCH 2008 Engineering Mechanics, MCH 2015 Intr. to Heat and Fluid Dynamics courses in undergraduate curriculum.

ITU MEMS Research Centre, Istanbul

2024 August-Present

Graduate Research Assistant

Within the scope of my master's research funded by Tübitak, I played an active role in experimental processes and research activities within the ITU MEMS Research Center. [Link](#)

Supervisor: Prof. Dr. Levent Trabzon | Assoc. Prof. Dr. Amir Navidfar

Tofaş, Bursa**2024 July-2024 August**

Research and Development Intern

R&D Engineering Internship in Upper and Lower Body Design Directorate. I examined design and revision processes in the R&D department, worked on sheet metal production in the press-die unit. I conducted tensile tests to analyze the mechanical characteristics of sheet metal samples. Additionally, I examined the grain structure of bakelite samples for inclusion analysis. I participated in FLD tests and evaluated the results.

Supervisor: Mustafa Ataman

Beycelik&Gestamp, Bursa**2023 August-2023 September**

Production Engineering Intern

During my summer internship, I monitored and reported the daily status of machines on the production line. Additionally, I conducted a research study on parameter optimization in robotic welding machines to prevent spat formation and reduce its size and distribution on thin plates.

Supervisor: Mücahit Karakaya

ITU Biomechanical Studies, Istanbul**May 2022-November 2022**

Mechanical Design and Materials Science

At ITU BioBEE, I played a key role in developing implants. I selected materials and optimized designs using ANSYS and ADAMS software, ensuring strength, biocompatibility, and cost-effectiveness.

ITU Automotive Society, Istanbul**October 2021-November 2022**

Co-founder & Board Member

Co-founder of Istanbul Technical University Automotive Society, board member. I played a key role in organizing the ITU Automotive Summit in 2022, demonstrating strong leadership and event management skills.

PROJECTS**ITU BAP - 47678****November 2025-Present**

Production and Characterization of Polyester Matrix Glass Fiber Reinforced Composites with CNT and/or GNP Additives, supported by Research Fund of the Istanbul Technical University. *Project Number: 47678*

Sazcılar – ITU & TUBITAK**September 2024-May 2025**

Lightweighting and improving acoustic properties of polyester matrix glass fiber reinforced composites for automotive industry with CNT and/or GNP additives. *Project Number: 5220151*

Senior Graduation Project: Development and Design of Cow Brushes**September 2023-June 2024**

Two-brush cattle scratching machine design for use in farms. Design process included wide range of literature research, 3D designs in SolidWorks, structural analysis, and cost efficiency.

Supervisor: Assoc. Prof. Dr. Ali Gökşenli

Co-axial Helical Gear Box Design**February 2023-June 2023**

Designing gearbox with student-specific data on AutoCAD. Obtaining manufacturing technical drawings and conducting structural analysis.

Supervisor: Asst. Prof. Vedat Temiz

Design of Polymer-Based Bicycle Suitable for Urban Use**February 2023-June 2023**

Developed a fully-polymer urban bicycle using CAD software (AutoCAD & SolidWorks) for design and analysis. Employed Moldflow and ANSYS for optimizing manufacturability, strength, and long-term durability.

EXAMS&GRANTS

IELTS -Academic

November 2025

Acquired C1 level English proficiency with overall 8/9 band score. | R:9 L:7 W:8 S:7.5

TÜBİTAK Graduate Research Scholarship

August 2024

Received a research scholarship from TÜBİTAK, The Scientific and Technological Research Council of Türkiye, within the scope of my graduate research.

ALES

April 2024

Academic Personnel and Graduate Level Education Examination executed by The Center of Turkish Higher-Level Education. Overall grade: Quantitative 87.7/100 | Ranked in the top %3.

YDS-English

April 2024

Foreign Language Proficiency Exam executed by The Center of Turkish Higher-Level Education. Acquired B-Level English proficiency with overall 85/100 band score. | Ranked in the top %4.

MEDIA&OUTREACH

Contributed to an ITU MEMS research project on nanomaterials application that received national media attention from the Anadolu Agency. This experience highlights the real-world impact and public visibility of the research conducted in the lab. [Link](#)

NOTABLE ELECTIVES

Biomaterials and Biomechanics, Polymers Engineering, Intr. to Mechanics of Composite Materials, Quality Control in Manufacturing, Intr. to Finite Element Analysis, Intr.to Micro-Elec.-Mech.Systems, Fatigue in Materials and Structures, Special Topics in Materials and Manufacture