

Gamze Uyaroğlu

Mechanical Engineering Student

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EDUCATION

Izmir Institute of Technology <i>B.Sc. in Mechanical Engineering</i> Relevant coursework: Heat Transfer, Thermodynamics, Fluid Mechanics, CFD, and Engineering Design	Sep 2020 – Expected Jun 2027
Izmir Institute of Technology <i>Minor in Industrial Design</i> Relevant coursework: Technical Drawing and Material-Oriented Design	Sep 2023 – Expected Jun 2027
Tallinn University of Technology <i>Erasmus Exchange Program, Mechanical and Industrial Engineering</i> Relevant coursework: Engineering Design and Structural Analysis	Jan 2025 – Jun 2025

EXPERIENCE

ODTÜ-GÜNAM <i>Research Intern, Solar Energy Systems and Thermal Energy Storage</i> - Conducted PV sizing and grid-connected system analyses using System Advisor Model (SAM), TMY weather data, and hourly demand profiles. - Evaluated solar-resource components, battery-storage alternatives, and energy-matching scenarios for a solar energy case study. - Studied concentrated solar thermal technologies, thermal energy storage, and heat-transfer applications.	Jun 2026 – Aug 2026
Türkiye Petrol Rafinerileri A.Ş. (TÜPRAŞ) <i>Maintenance Field Engineering Intern</i> Observed inspection and maintenance practices for storage-tank structures and rotating equipment in a refinery environment.	Jul 2024 – Aug 2024
Cevher Jant Sanayi A.Ş. <i>Machining Intern</i> Examined machining processes, wheel-manufacturing stages, and Kaizen practices in a production environment.	Sep 2023 – Oct 2023

PROJECT

Latent Solar Thermal Energy Storage: Effect of PCM Domain <i>Graduation Thesis Project</i> - Designed and tested a laboratory-scale latent thermal energy storage system using phase change materials. - Investigated the effects of heat-transfer tube position and geometry on melting and solidification performance using temperature measurements from 20 thermocouples. - Awarded 3rd Place in the Heat, Fluid and Energy category of the 12th Haluk Silay Graduation Projects Competition.	Oct 2025 – Jun 2026
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TECHNICAL SKILLS

Simulation and CAE: ANSYS Workbench, ANSYS Static Structural, STAR-CCM+

CAD and Design: SolidWorks, Fusion 360

Programming and Data Analysis: MATLAB, Python, Microsoft Excel

Digital Manufacturing: Unity, Visual Components

Technical Areas: Heat Transfer, Thermal Energy Storage, CFD, Experimental Testing

ACTIVITIES

Vice President, IZTECH Mechanical Engineering Society	Oct 2025 – Jun 2026
Organization Coordinator, VOLTARIS Electric Vehicle Team	Aug 2024 – Jan 2025
Communication Coordinator, IEEE IYTE Women in Engineering	Sep 2023 – Jun 2024

LANGUAGES

Turkish: Native		English: B2, Working Proficiency		German: A2, Beginner
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