

MUHAMMED MUSTAFA

Mechanical Engineering

+905537706792 muhammed.mustafa9831@gmail.com <https://www.linkedin.com/in/muhammed-mustafa-5529811b7/>
Adana/Türkiye

SUMMARY

I'm Muhammed Mustafa, a Mechanical Engineering student passionate about renewable energy and sustainable solutions. I thrive in fast-paced environments, and as a fast learner, I'm always ready to acquire new skills and tackle new challenges. My key skills include SolidWorks, AutoCAD, PVsyst, simulation, 3D modeling

LANGUAGES

Arabic	Native
English	Proficient
Turkish	Advanced

SKILLS

ANSYS	AutoCAD
Mechanical Design	Solidworks
Fast Learner	3D Modeling
Laser Cutting	Microsoft Excel
Performance Analysis	Pvsyst
Welding	

EDUCATION

Mechanical Engineering Gaziantep University

09/2020 - Present Gaziantep, Türkiye

EXPERIENCE

Intern - Mechanical Engineering Department

Gaziantep Üniversitesi

08/2021 - 09/2021 Gaziantep, Türkiye

- Learned various welding techniques and types
- Operated production machinery such as lathes, drills, laser cutting machines, CNC forming machines, and hydraulic punching and shearing machines
- Participated in the disassembly and reassembly of a Mercedes bus engine

PROJECTS

Gearbox Design

03/2024 - 05/2024 Gaziantep, Türkiye

Designed a gearbox with calculated gear ratios, motor power, and dimensions.

- Designed a gearbox as part of a Mechanical Design course, including precise calculations for gear ratios, motor power, and final dimensions.
- Focused on optimizing efficiency, reliability, and structural integrity through detailed engineering analysis.
- Developed technical drawings and 3D models using SolidWorks and AutoCAD to ensure precise implementation.

Tesla turbine

02/2024 - 06/2024 Gaziantep, Türkiye

Developed a bladeless turbine converting fluid energy into mechanical power.

- Designed and tested a bladeless centripetal flow turbine inspired by Nikola Tesla's design, utilizing smooth discs to convert fluid energy into mechanical energy.
- Focused on optimizing turbine efficiency and performance for potential applications in renewable energy systems.
- Conducted performance analysis and efficiency testing using ANSYS for fluid dynamics and SolidWorks for 3D modeling.

Solar Exhaust Fan System

10/2024 - Present Gaziantep, Türkiye

Designing a solar-powered fan system for energy-efficient ventilation.

- Aimed at improving ventilation efficiency and reducing energy consumption in buildings.
- Responsible for selecting and integrating solar panels, optimizing energy output, and enhancing system performance using PVsyst.
- Applying knowledge of renewable energy and mechanical design to create an innovative solution for sustainable building ventilation.