

YOSEPH TEKLE GEBRA

MECHANICAL ENGINEER

PROFILE

A Mechanical Engineering Graduate from Dokuz Eylul University with expertise in Rigid Body Dynamics control and analysis. Specializing in Vibration, Fluid Mechanics, Thermo Dynamics, Advanced Mathematics, and Heat Transfer, I excel in optimizing production methods and mechanism analysis. Trilingual professional combining technical precision with cross-cultural communication skills. Known for meticulous attention to detail and strong analytical capabilities in design and calculations, committed to delivering innovative solutions that stand out in competitive markets.

EDUCATION

DOKUZ EYLUL UNIVERSITY

(IZMIR, TÜRKIYE)

- Mechanical Engineering (B.S.)
- GPA: 3.07 , Graduation : 09/2024

ADDIS ABABA UNIVERSITY

(ADDIS ABABA, ETHIOPIA)

- Mechanical Engineering (B.S.)
- GPA: 3.6 , 2 years withdrawal : 2018

ROSENHEIM UNIVERSITY

(ROSENHEIM, GERMANY)

- Mechanical Engineering (M.S)
- Erasmus Exchange Program

RIFTVALLEY UNIVERSITY

(ADDIS ABABA, ETHIOPIA)

- Business Management , Distance
- GPA: 3.9, Graduation : 20/08/2025

EXPERIENCE

Goksal Aeronautics

AUG 2023 - NOV 2023

Mechanical Design Engineer,

- Created and tested functional prototypes to validate design concepts and functionality
- Developed mechanical components and products using advanced CAD software, ensuring optimal design solutions
- Performed comprehensive FEA and CFD analyses to evaluate structural integrity, thermal behavior, fluid dynamics, and overall design performance

Senkaya Celik Dokum San. Ve Tic.A.S

JUL 2022 - SEP 2022

Summer Internship (Casting and Machining)

- Operated on 3,4,5 axial CNC Machines as an assistant.
- Executed CAD and CAM programs.
- Assisted on Test and Control department (Mainly on Tensile test and Impact Test machines) for 2 weeks.
- Assist in evaluating quality control parameters using robotic and manual systems to identify defects in metal castings.

Dokuz Eylul University

OCT 2022 - JUN 2023

Load Lifting Wearable Robot

- Developed load-lifting mechanisms that can be mounted on the human. Observed 360-degree rotation of the mechanism.
- The force was generated on 4 bending locations of the body using 4 pneumatic systems.
- 12V 10Ah battery was used to generate a force that lifts at least 16 kg of load with ease in 40 seconds.

Rosenheim Technical University

MAR 2021 - JUN 2021

ANSYS Project on CPU Heat Sink

- Modeled 3 different Fin models.
- Implemented 3 geometry of Fins in 2 hours of FIN simulation in Ansys Workbench.
- Obtained a temperature difference of 100 in changing the Fins.

Dokuz Eylul University

OCT 2022 - JUN 2023

Heating and Ventilation Analysis of a Residential

- In a group of 4, examined the required heating and ventilation for a residential building.
- Researched the condensation effect, the required gross heating, and the altitude effect.
- Performed the assessment with different approach weekly.



CONTACT

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SKILLS

- MATLAB
- SOLIDWORKS
- ANSYS
- EES
- Leadership
- Effective Communication
- Project Management

CERTIFICATES

- Introduction to basic vibration
- Project Management
- MATLAB
- FEM - Linear, Nonlinear Analysis & Post-Processing
- CFD Simulation Through a Centrifugal Pump
- IELTS

LANGUAGES

- Amharic(Native) ●●●●●
- English ●●●●●
- Turkish ●●●●●

REFERENCE

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