



# Emir Tuna Korkmaz

## MECHANICAL ENGINEER

### ABOUT

I am a recent graduate with a bachelor's degree in mechanical engineering from Gebze Technical University with a strong passion for applying artificial intelligence and additive manufacturing to address engineering challenges. I have a keen interest in areas such as thermal analysis, explicit analysis, topology optimization, and the application of statistical tools to enhance engineering solutions. While I have a keen interest in these topics, I remain open to exploring innovative and research-based areas in the field.

### WORK EXPERIENCES

#### Enau GmbH - Functional Safety Consultant

March 2023 - September 2023

- Strong background in A-SPICE, ISO 26262, and knowledge of automotive standards and regulations.
- Proficiency in project management methodologies, including Six Sigma, Kanban, and Scrum.
- Primarily served to TOGG projects.

#### Siemens - Strategic Procurement Working Student

October 2022 - March 2023

- Actively involved in the management of contract agreements, the evaluation of suppliers, and the identification of new suppliers for Siemens.

#### Siemens - Real Estate Internship

July 2022 - August 2022

- Gained experience in project management, sustainability, HVAC, batteries, renewable energy, and their industrial applications.

#### AKIM Metal - Manufacturing Internship

August 2021 - September 2021

- Had the chance to get detailed information about machining and casting manufacturing methods.
- Gained information about measuring techniques, measuring tools, testing, and analysis of manufactured parts.

### ACTIVITIES

#### Article on Artificial Intelligence Enabled Heat Sink Design for Additive Manufacturing

August 2023 - In Progress

- Decided to transform our thesis topic into an article with the goal of enhancing the heat sink's thermal performance and efficiency through additive manufacturing techniques, AI-driven optimization, and statistical approaches.

#### TEKNOFEST Artificial Intelligence in Transportation Competition

March 2022 - July 2022

- The aim of the competition was to detect vehicle and human objects using the AI-based object detection system with the camera data of the flying car. We qualified to the semi-finals.

#### TURKSAT Model Satellite Competition

February 2021 - September 2021

- We competed to launch our satellite with a rocket, safely land it using a brushless motor, and maintain healthy communication with the ground station. We qualified for the finals and finished 11th.

#### Mechanical Engineering Society Founder

February 2020 - September 2021

- Founded and ran a club named Mechanical Engineering Society in my university.

### CONTACT

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<https://github.com/emirtuna>

### EDUCATION

#### Gebze Technical University

September 2018 - July 2023

#### Bachelor of Science in Mechanical Engineering

GPA: 3.16

Thesis: Artificial Intelligence Enabled Heat Sink Design for Additive Manufacturing

### SKILLS

- Abaqus
- Python
- Solidworks
- Catia V5
- Hypermesh
- Artificial Intelligence
- Matlab
- nTopology

### LANGUAGES

- Turkish (Native)
- English (B2+)
- German (A2)

### CERTIFICATES

- Algorithmic Engineer Certificate by Hyperganic
- Innovation of Sustainable Aviation Challenge Certificate by General Electric