Kaan Cebir

Mechanical Engineering Student

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Education:

Izmir Katip Celebi University, Bachelor of Science, Mechanical Engineering
4.09.2021– Expected graduation: June 2026

Work Experience:

Janoschka Aegean Cylinder Industry and Trade Inc. | Intern
01.07.2024 – 05.08.2024

- Designed the body and various components of a copper stripping machine using Autodesk Inventor, modernizing its design and improving overall structural stability.
- Developed a MATLAB code to calculate processing time for cylinders with varying diameters in machinery, ensuring accurate and adaptive time estimation based on cylinder dimensions.

Formula Student Project | IKC Racing R&D Team Member
January 2023 – September 2023

- Conducted research on chassis design methodologies, focusing on structural integrity, weight and manufacturability.
- Created sample chassis designs using Autodesk Inventor for concept evaluation and structural assessment.

SLC Fluidics Ltd.
01.10.2024 – 01.04.2025

- Performed ANSYS Fluent simulations on the leading edge of a turbine blade.
- Analyzed the effects of varying hole pitch on cooling effectiveness, comparing computational results with experimental findings to assess model accuracy.
- developed a mathematical model from the analyzed data by using symbolic regression method with Python (PySR).

Self-Projects:

- Replicated and simulated the CFD analysis of a hydrodynamic journal bearing using ANSYS Fluent, implementing dynamic mesh techniques to capture transient behavior.

Certifications & Training:

TEI Aviation Engines School | TUSAŞ Engine Industries (TEI)

- Completed an advanced training program on aviation engines, covering topics such as gas turbine technology, engine components, and manufacturing processes.
- Gained insights into aerospace propulsion systems, engine maintenance, and performance analysis.

Technical Skills:

- Ansys Fluent, MATLAB, Inventor, AutoCAD

Language:

- English (B2)
- Turkish (native)

Reference:

- Assoc.Prof. Sercan Acarer
- Tel: +90 554 406 5176
- E-Mail: sercan.acarer@ikcu.edu.tr