Şeref Kaya

Mechanical Design Engineer (Junior) · SolidWorks, AutoCAD · AI-Assisted CAD Automation

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PROFILE

Mechanical engineer (2026 graduate, MÜDEK/EUR-ACE accredited program) preparing parts, assemblies and manufacturing drawings in SolidWorks and AutoCAD. Process-department intern at ALNO METAL, close to machining production; ANSYS thermal and structural projects; Claude and Python to automate templates, batch export and repeated drawing work. Seeking a full-time junior role in mechanical design, product, process or manufacturing engineering, on-site in Istanbul or remote.

EXPERIENCE

Engineering Intern, Process Feb 2026 – Jun 2026
ALNO METAL Tuzla, Istanbul

- Prepared technical drawings and part designs in the process department.
- Took part in machining production; saw first-hand how design decisions carry over to the machine.
- With support from company engineers, ran a project on how laser-cut surface quality affects the adhesion of PVD titanium coatings.

PROJECTS

Laser-cut surface quality and PVD titanium coating adhesion 2026
ALNO METAL · Manufacturing and surface quality

- Investigated how the surface left by laser cutting affects the adhesion of the PVD titanium coating applied on it.

Parabolic trough solar collector analysis Graduation project
ANSYS · Thermal analysis

- Modeled and analyzed the collector's thermal performance in ANSYS.

Sandwich beam design Graduation project
ANSYS · Structural analysis

- Designed a sandwich beam and analyzed its structural behavior in ANSYS.

SolidWorks design and AI-assisted CAD automation 2026
Personal sample projects · SolidWorks · AutoCAD · Python · Claude

- 3D parts, mated assemblies and manufacturing drawings from drawings and images: 8-component Housing (24 mates, true metric threads), 9-part medical handpiece (BOM), go-kart chassis with wall-thickness tubes (22.26 kg, A2 drawing), 15-part guitar.
- Python-generated ISO A4–A1 SolidWorks drawing templates; scripts that build AutoCAD, AutoCAD Mechanical and MEP drawings from the command line.

TÜBİTAK-supported submarine project University

- Member of the Manisa Celal Bayar University submarine project team.

EDUCATION

B.Sc. Mechanical Engineering
Manisa Celal Bayar University
2020 – 2026 · MÜDEK accredited

High school
Özel Kadıköy Birey Anatolian High School · GPA 82.53 / 100
Heybeliada Anatolian High School · Chinese language program

SKILLS

CAD
SolidWorks (parts, mated assemblies, drawings, templates), AutoCAD, AutoCAD Mechanical and MEP (basic)

Analysis
ANSYS (structural, thermal), MATLAB

AI and automation
Claude, CAD automation with Python (SolidWorks API, AutoCAD, CadQuery)

Manufacturing
Machining, laser cutting, PVD coating, technical drawing (ISO)

LANGUAGES

Turkish	Native
English	B2
Chinese	A2

CERTIFICATES

English B2 · MyEnglishLab
MÜDEK-accredited degree