

# COVER LETTER

Dear authorized person, I graduated as a master's in mechanical engineering from the Sakarya University (GPA 3,60/4,00). As a mechanical engineer, I have a strong background in the basic principles of engineering, methods and practices in mechanical system design, testing and troubleshooting mechanical equipment. In addition, I am proficient in using FEA software & advanced CAD designing tools such as Ansys, Comsol, SolidWorks, NX, Autodesk Products, Helius Composite, Digimat, etc. As an extra skill compared to classical mechanical engineers, I have the coding background, artificial intelligence, deep learning, and topology optimization knowledge.

My professional work experience as a mechanical design engineer in the satellite technologies, UAVs (moving system design, cycloid gear design, powertrain, composite product design, 3d printing etc.) and my years of academic background have given me not only a strong technical foundation but also domain knowledge and exposure to the work environment. My key strengths include effective communication, strong troubleshooting skills, Quick problem-solving ability and passion to learn and adopt new technologies and skills.

My years of experience creating mechanical design and detailed theoretical background have provided me with a broad range of experience, but most importantly with a valuable list of do's and don'ts along the way. Thanks to this, I won the internationally prestigious 2022 iF Design Award.

As my years of education and experience make me feel confident that I can excel and live up to the expectations in performing the duties assigned. My enclosed resume provides more details on my qualifications, skills and work experience.

Thank you for your time and consideration.

Best Regards!

*O.B. Kurukaya*

# OĞUZHAN BARTUĞ KURUKAYA

## MECHANICAL ENGINEER

17.12.1991 / MARRIED / TURKEY / MALE



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## PROFILE

I am a strong, skillful, and self-organized Mechanical Design engineer with 8 years experience of developing mechanical structures and components, optimizing the existing designs. I have strong academic background and good understanding of solving mechanical problems.

## EXPERIENCES

2020- ... **DASAL Aerospace - Mechanical Design Specialist**  
[www.dasal.com.tr](http://www.dasal.com.tr) / ISTANBUL,TR

### Projects & Tasks:

- Middle-Class UAVs structural design (up to 75 kg) - [Link](#)
- Heavy-Class UAVs structural design (up to 420 kg) - [Link](#)
- Multicopter AirTaxi structural design
- Monocoque Composite Structural Design

2020-20 **Femsan Motors - Mechanical Design Specialist**  
[www.femsan.com](http://www.femsan.com) / ISTANBUL,TR

### Projects & Tasks:

- Designing of the ammunition steering electric motors
- Servo motor gear mechanism design
- Powertrain systems design

2019-19 **Mechanikai Közpond KFT- Mechanical Design Specialist / SZEGED,HU**

### Projects & Tasks:

- Robotic mechanisms and precise positioner designs

2015-19 **PROFEN Group - Mechanical Design Specialist**  
[www.profen.com](http://www.profen.com) / ISTANBUL,TR

### Projects & Tasks:

- Tracking antenna composite reflector design (7.3m diameter) - [Link](#)
- Antenna XY Pedestal and Cycloid Gear Design - [Link](#)
- Flyaway Antenna Design - [Link](#)

2014-15 **3B HUB - Mechanical Design Engineer**  
[Web Page](#) / SAKARYA,TR

### Projects & Tasks:

- Additive manufacturing applications
- 3D Printer design (Machine Design)

REFERENCES - Please contact me for contact information.

## EDUCATION

### • Sakarya University

2010 - 2014 | Bachelor in Mechanical Engineering, GPA: 74/100  
[www.sakarya.edu.tr](http://www.sakarya.edu.tr)

### • Sakarya University

2014 - 2019 | Master in Mechanical Engineering, GPA: 3.6 / 4

### • Yeditepe University

2021 - ... | PhD in Mechanical Engineering, GPA: 3.5 / 4  
[www.yeditepe.edu.tr](http://www.yeditepe.edu.tr)

## SKILLS

- Monocoque composite design
- Traditional manufacturing methods
- UAV structural design
- 3D Printing (DMLS,SLS,FDM etc.)
- CAD-CAM-CAE
- Machine Design

## LANGUAGES

Turkish	Native
English	B1-B2
Hungarian	A2

## TRAININGS

- Monocoque Design – Nativelabs (Spain)
- PMP Exam Prep. -Izge Academy (Turkey)
- Kisssoft - One Plus (Turkey)
- Quality Management
- Agile Methods and Scrum

## SOFTWARES

Solidworks	Digimat	Fusion 360
NX	Inventor	OpenFoam
Ansys	Matlab	Finics

## TRAININGS

Mechanical and Electrical Response of Structural Capacitor for Various Dielectric Materials

DOI: [10.16984/taufebilder.645408](https://doi.org/10.16984/taufebilder.645408)

## AWARDS



DESIGN  
AWARD  
2022

IF Design Award - Berlin  
[Link](#)