

# Ilker Dag *Mechanical Engineer*

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👤 Mr.

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## PROFILE

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As a Mechanical Design Engineer with over 6 years of experience, I focus on creating practical designs with a strong emphasis on manufacturing and maintenance. I prioritize developing easy-to-modify models using parametric design principles for flexibility and efficiency. I excel in team environments, emphasizing clear communication and collaboration. My proactive project planning and detailed documentation support effective teamwork. I am dedicated to sharing my expertise, fostering a supportive atmosphere within teams. Throughout my career, I consistently deliver innovative and maintainable designs that meet project requirements and ensure long-term usability. STAMP 4 I am eligible to work in Ireland

## PROFESSIONAL EXPERIENCE

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### Mechanical Design Engineer

2022/07 – present | Tullamore, Ireland

*McDonald International* [🔗](#)

As a Mechanical Design Engineer at McDonald International, I contributed to the design and production of recycling and waste sorting systems. The company specializes in creating facilities over 5000 m<sup>2</sup>, tailored to client specifications for material and sorting capacity. The machinery produced by the company includes shredders, vibrating screens, trommel machines, conveyors, access platforms, and cabins.

#### Responsibilities

- Creating provisional models for sales team
- Creating machine layouts based on 3D scan (point cloud) datas
- Modeling machinery and structures according to client specifications.
- Ensuring designs comply with ISO Design and Health and safety standards.
- Producing detailed technical drawings, specifying geometric tolerances and welding specifications.
- Creating material and cost lists and collaborating with the purchasing department.
- Attending client meetings and providing production support.

### Project Engineer

2018/08 – 2021/12 | Turkiye

*Goknur Machinery* [🔗](#)

GOKNUR MACHINERY

I worked as a Project Engineer at Goknur Machinery, a company specializing in production machinery for the kitchenware and textile industries. Their products include packaging machines, washing tunnel machines, conveyors, hydraulic presses, and sandblasting machines. I contributed to sales, design, production planning and testing processes.

#### Responsibilities

- Conducting provisional models and cost analysis to the project presentation.
- Supporting sales, presenting to customers, and discussing technical details.
- Creating production line layouts to match manufacturing processes and facility requirements.
- Designing machineries from concept through detailed design in accordance with technical specifications, customer requirements, and financial objectives. (R&D)
- 3D Design of Mechatronic equipment including mechanisms; transfer systems, servo systems, robotics, pneumatics, electrical equipment, and machine guarding systems.
- Conducting structural analysis to determine material and equipment selections for projects.
- Creating material and cost lists and collaborating with the purchasing department.
- Reporting on the production process and carrying out production enhancement activities.
- Attending Client meetings and weekly meetings with Project and production teams.
- Conducting 3D design and utilizing 3D printers for additive manufacturing subcontracting jobs.

## EDUCATION

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### Mechanical Engineering

2016 – 2021 | Turkey

*Sutcu Imam University*

I participated in a night education program. - NFQ Level 8

## SKILLS

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### Design Tools

Solidworks

Catia

Autocad

Draftsight

Autodesk Recap (Pointcloud sw)

### Others

Solidworks PDM

Microsoft office

Ansys

3D Printer and CAM tools

Adobe Illustrator, Photoshop, Premiere Pro

Procut

## CERTIFICATES

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### CSWP

Solidworks CAD design professional

### Project Management

Agile methodology

### GD&T

Geometric dimensioning and tolerancing

### Engineers Ireland Member

## PROJECTS

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**Colour sensitive transportation automation**

2020

**Mitter saw**

2020

**KSUTEKNOROB Robotic vehicle competition**

2019

**3D Printer**

2019

**Underwater vehicle for TEKNOFEST competition**

2018

**Mechanic hand to boy with abnormality in hand**

2018

## ORGANIZATIONS

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### Youth Station Ireland

2024 – present | Ireland

*Internal affairs coordinator*

Youth Station Ireland is an organization dedicated to empowering young Turkish people in Ireland. It offers programs for personal development, skills training, and community engagement specifically for Turkish youth.

### IEEE University Chamber

2016 – 2021 | Turkiye

*Technic projects coordinator*

IEEE University Chamber is a student club where university students organize events and find professional development opportunities using IEEE resources.