



# Alper Ünlü

Problem Solver, Quick Learner, Investigative  
and Analytical

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Adana, Turkey

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## Education

- ATÜ Science and Technology University · **Master's Degree**  
Electrical Engineering - Energy Technology  
09/2019- 07/2022 Adana, Turkey  
GPA **3.81** / 4.0
- Kaunas University of Technology · **Bachelor's Degree**  
Mechanical Engineering, Erasmus Program  
08/2015 - 03/2016 Kaunas, Lithuania
- Mersin University · **Bachelor's Degree**  
Mechanical Engineering  
2013-2018 Mersin ,Turkey

## Experience

- **Barış Technological Installation** · Adana / Turkey  
Senior Project & Design Lead  
January 2023 - Present
  - Provide strategic oversight and leadership for a dynamic team of six engineers, setting project direction, reviewing outputs, and validating design decisions.
  - Specialize in generating detailed manufacturing schematics and deriving intricate engineering metrics including steam capacity, pipe configuration, flow charts, and pressure calculations.
  - Craft precise layout technical drawings, leveraging vast industry experience and technical acumen.
  - Synthesize high-level project and design knowledge to effectively address and resolve complex challenges in equipment design and project execution.
- **Technical Sales & Design Engineer**  
January 2020 - January 2023
  - Undertook and completed over 140 projects within a 3-year span, which included designing a wide variety of heat exchangers and boilers tailored to customer needs.
  - Prepared comprehensive quotations for clients and established standard parameters for equipment design.
  - Handled the application process for CE marking for each project, ensuring all designs complied with EN 12952-12953-13445 standards.
- **Design Engineer**  
June 2019 - January 2020  
Applied advanced heat transfer knowledge to effectively understand and utilize boiler and heat exchanger design principles, leading to the successful delivery of bespoke equipment tailored to client specifications.
- **Oğuz Tekstil** · Adana / Turkey  
Maintenance Engineer Intern  
June 2017 - September 2017

## Language

English	Turkish
Professional Proficiency	Main Language

## Skills & Competencies

- **Design Engineering** - Proficient in applying reverse engineering principles to boiler and heat exchanger designs.
- **Technical Sales** - Experience in developing customer-focused solutions, and preparing comprehensive quotations.
- **Project Leadership** - Proven ability to guide and validate the work of engineering teams, driving projects from conception to completion.
- **Regulatory Compliance** - Skilled in applying industry standards (EN 12952) and acquiring CE marking for designed equipment.
- **Technical Drawing** - Expertise in creating detailed manufacturing and layout technical drawings.
- **Engineering Calculations** - Proficient in calculating intricate engineering metrics including steam capacity, piping, flow diagrams, and pressure calculations.
- **Problem-solving** - Demonstrated ability to resolve complex design and project execution challenges.
- **Software Proficiency** - AutoCad, Matlab, Excel, Ansys, SolidWorks, PPSD, AutoPlant.

## Interest

- |             |         |
|-------------|---------|
| Photography | Dancing |
| Music       | Driving |
| Gaming      | Reading |

## Reference

### Onur Ünlü

CEO of ESCON Enerji A.Ş., Turkish Enterprise and  
Business Confederation Boardmember

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Phone Number Will be shared on  
request in accordance with GDPR

### Metin Filizci

Export & Regional Sales Manager at Baris Tech.

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request in accordance with GDPR

## Project

- **High-Efficiency Steam System Project in Russia** August, 2020  
Delivered 2 units of 8.75 TPH 16 BAR AIBK, 2 units of 15 TPH Scotch-type boilers, 2 units of 4500 kW Eco Cassette-type boilers, and a 25 m3 Condensate Deaerator (Mars 100).
- **Advanced Hot Oil Boiler Installation for a New Factory** February, 2020  
Provided four units of 5814 kW 8 BAR serpentine hot oil boilers equipped with economizers.
- **High-Capacity Heat Exchanger Project** June, 2022  
Delivered a 20,000 kW 30TPH 16 BAR Kettle-type heat exchanger for steam production using hot oil.
- **High-Pressure Steam Boiler Project** May, 2023  
Provided a 15 TPH 17 BAR Scotch-type steam boiler and its auxiliary equipment, including a feedwater economizer.
- **Hot Water Boiler with Auxiliary Equipment Project** June, 2023  
Delivered a 9302 kW 5 BAR Scotch-type hot water boiler equipped with an economizer.
- **LNG Vaporizer Hot Water Boiler Project in Canada** July, 2023  
Provided a 2000 kW 4 BAR LNG vaporizer hot water boiler equipped with an LNG vaporizer heat exchanger.
- **Comprehensive Steam Boiler Project** September, 2019  
Executed a 5 TPH 10 BAR Scotch-type coal boiler with an integrated wet scrubber for effective sulfur exhaust treatment, satisfying the facility's steam needs sustainably.

## Courses

- Boiler Control Systems 16 Hours  
05/2023 Gestra
- Design and Project Tracking in SAP 16 Hours  
02/2023 Special Advisor
- ISO 9001 Basic Quality Training 16 Hours  
01/2023 Special Advisor
- Boiler Design and Thermodynamic Calculations With PPSD 128 Hours  
09/2022 - 01/2023 Special Advisor
- Pressure Vessel Design According to EN 13445-3 16 Hours  
06/2022 Turkish Boiler & Press. Vessel Manufacturers Association
- PED 2014-68-EU Pressure Vessel Directives 8 Hours  
02/2021 Turkish Boiler & Press. Vessel Manufacturers Association
- Burner for boilers 8+8 Hours  
12/2020 Baltur + Riello
- Pumps for boilers 8+8 Hours  
11/2019 Grundfos + Wilo
- Armatures for Steam Systems 8 Hours  
10/2019 Venkava

## Publication

### Master's Thesis - Analysis of the backpressure-surface area in smoke tube heat exchangers

Conducted an in-depth study of the interrelation between backpressure and surface area in smoke tube heat exchangers. This research has potential implications for improving efficiency and cost-effectiveness in the design of these heat exchangers.

Thesis No: 755902

### Design And Application Of Biogas Chiller Heat Exchanger Based On Backpressure - ICENAS 21

Presented a biogas condenser heat exchanger design, emphasizing the role of backpressure in the design process. This work particularly focuses in optimizing energy use in biogas systems.

### Sludge Drying Exchanger Design in Waste Water Treatment Systems And Its Application - IMSEC 20

Outlined a unique approach to sludge drying exchanger design in wastewater treatment systems, presenting practical applications that can potentially improve waste management and environmental impact.

### Automated Ammunition Feeding System Design for Tank Main Gun (IMSEC 18)