

Sinan Ozbolgili

M.Sc. Mechanical Engineer

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Master of Science in Mechanical Engineering (Specialization in Thermodynamics and Heat Transfer)

Product Development Engineer with over 9 years of experience in HVAC-R and thermal systems, gained in multicultural corporate environments. Proven expertise in research and development, as well as in manufacturing processes. Extensive technical knowledge of air handling units, heat pump systems, water-air heat exchangers, liquid desiccant technologies, and heat recovery systems.



Work History

Sep 2019 – Senior RD Engineer

Still SKM Air Conditioning LLC, Dubai, UAE

Conduct research and development activities in line with the company's strategies. Develop technology by constantly following technological developments that will improve production processes and products' ability to compete in the market.

- Design of air handling units for different types of applications including cooling datacenter such as fan wall and cabinet cooling units.
- Perform thermodynamic design calculations based on project data and requirements.
- Development activities of chilled water and direct expansion heat exchangers.
- Developing liquid desiccant system with Lithium Chloride
- To follow the certification process and follow tests of products.
(Eurovent Real Unit and Model Box Test, AHRI 1350-AHRI 410-AHRI 430-AHRI 440).
- Manage the execution of qualification plans for prototypes and individual components, ensuring they meet performance and safety standards.
- Utilize engineering software to size and select HVAC components and conduct thermodynamic simulations to optimize prototype designs.
- Design of humidification and dehumidification system
- Gas purity filtration system for oil and gas system with different adsorbents.
- Coordinating with suppliers and procurement to specify needed materials/parts and preparing specifications of goods.
- Cooperate with the Lab. team for required tests for certifications and capacity control.
- Developing of selection software (AHU, chilled water, and DX coil software)
- Stay up to date on the latest advancements in technology and design principles.

March

2019

September
2019

Chassis Development Engineer

Base Studio, Kocaeli Turkey

- Chassis design for army and heavy vehicles.

**Dec 2015 -
Mar 2019**

Research and Development Engineer

Systemair Turkey, Istanbul, Turkey

- Manages the processes of designing, developing and adapting new products and parts required for new products.
- Designing refrigeration cycle for swimming pool dehumidification unit with heat pump option for Middle East and Europe on Creo
- Development activities for air handling unit to increase quality and achieve better class of Eurovent
- Fan performance test in lab which is designed according to AMCA210
- Preparation and publication of BOM list of new products.
- Vibration Control (Acceleration and Displacement Measurements).

Mar 2015 -

Design Engineer

Dec 2015

SAES Machine, Kocaeli, Turkey

- Design of stone crusher and screening machines by using SolidWorks- PDM
- Preparing FMEA reports.
- Follow the production for new designs and existing orders

Education

**Sep 2022 -
June 2024**

Master of Science: Mechanical Engineering

Gebze Technical University – Kocaeli Turkey

Computational Investigation of Pool Boiling Around Different Diameter Horizontal Tube Under Atmospheric and Sub-Atmospheric Pressure.

CFD-Thermal Optimization, Cooling System, Heat Exchanger, UniSim, Minitab

**Sep 2010 -
Sep 2014**

Bachelor of Science: Mechanical Engineering

Yildiz Technical University – Istanbul Turkey

Certifications

**Feb 2015
Feb 2014**

English Language Course, Georgia Tech University Atlanta-USA

SolidWorks

Abilities and Competencies

Language	Core Competencies	Software
Turkish (Excellent)	Leadership, Collaboration, Open to learning, Sustainability	Creo PTC (Excellent)
English (Excellent)		AutoCAD (Excellent) SolidWorks (Good) SimSclae (Average) ANSYS Fleunt (Good)