ERDEM UYUNMAZ

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EXPERIENCE

10/2021 – 01/2022
PROJECT ENGINEERING INTERN, EMEK TEKNİK ENDÜSTRİYEL SİSTEMLER MÜHENDİSLİK MAKİNA SAN. VE TİC ŞİRKETİ, ISTANBUL/TURKEY

- To be responsible for the design of industrial furnaces and auxiliary equipment for copper and copper alloy foundries and the management of the management of the production process.
- To be responsible for the numerical design of the machines suitable for aluminum extrusion, aluminum melting-recycling and aluminum shaping processes in accordance with the standards and the management of the production process management.
- In addition, being responsible for the design of the machines used in the non-ferrous metal sector and the management of the production process.

07/2020 – 09/2021
STRUCTURAL & COMPUTATIONAL FLUID MECHANICS ANALYSIS (CAE) APPLICATION SPECIALIST, GRUP OTOMASYON BİLGİ İŞLEM SİSTEMLERİ, İSTANBUL/TÜRKİYE

- To be responsible for computer-aided engineering studies in structural analysis issues (ABAQUS), which have been verified by hand calculations and for the purpose of pre-detection of potential problems.
- To provide computer-aided engineering for the pre-detection of errors to be encountered in field applications and the improvement of designs by simulating plastic injection processes in advance in a computer environment (Moldex3D).
- To be responsible for providing technical support and training support for analysis services to various main industry companies.
- To be responsible for the realization of ABAQUS trainings for students from various education levels on ABAQUS.

01/2020 – 02/2020 ve 07/2020 – 08/2020
MECHANICAL ENGINEERING INTERN, ÖZGÜN MAKİNE SAN. VE TİC. AŞ., İSTANBUL/TÜRKİYE

- Follow-up of gear wheel mechanisms in terms of project design and manufacturing.
- Damaged etc. to be remanufactured at the worksite. Follow-up of project design and manufacturing in order to remanufacture reducer bodies and gear wheels.
- Being responsible for measuring regions and geometries that cannot be measured with standard measuring instruments with the 3D measuring device faro.
- To ensure that certain control calculations specific to gear wheels are made.
- To ensure that ultrasonic crack test, magnetic crack test, Rockwell-Brinell-Vickers hardness tests, which are made for quality control purposes after certain manufacturing stages, are carried out in the field under appropriate conditions.

06/2019 – 08/2019
MANUFACTURING INTERN, ÇORUM TEKNİK ÇELİK DÖKÜM MAKİNE LTD. ŞTİ., ÇORUM/TÜRKİYE

- Processing wooden models for sand molds and experiencing the points that will draw attention during processing by working on the parts processing stages, vertical processing and Router model bench in detail with basic CNC training.
- Acquiring detailed mold making and metallurgy-specific knowledge on casting processes and metallurgy with foundry basic training

09/2018 – 06/2019
MANUFACTURING INTERN, KALİTE MAKİNE LTD. ŞTİ., İSTANBUL/TÜRKİYE

- Vocational competence basic education and measurement methods, learning how to use measuring tools used in manufacturing
- With the basic and advanced machining techniques training, the processing stages on universal turning, milling, borverk benches were experienced, and it was experienced to examine what can be done on a workbench.

EDUCATION

2018-2022
BACHELOR DEGREE, MARMARA UNIVERSITY
Faculty of Technology – Mechanical Engineer
GPA: 3.53

DASSAULT SYSTEM TRAININGS

- SIMULIA Composites Simulation Engineer Essentials & Analysis of Composite Materials with Abaqus
- Buckling, Postbuckling and Collapse Analysis
- Metal Inelasticity in Abaqus & Metal Forming with Abaqus
- Modeling Contact and Resolving Convergence Issues with Abaqus

Driving License : B (manual)

TALENTS

- English (Fluent)
- Analytical thinking and application (3/3)
- Work management (3/3)
- Advanced technical drawing reading (3/3)
- ABAQUS (3/3)
- ANSYS (2/3)
- CATIA V5 (3/3)
- INVENTOR (3/3)
- SOLIDWORKS (3/3)
- AutoCAD (3/3)
- FUSION 360 (3/3)
- POWERMILL (2/3)
- C++ (2/3)
- MS Office (3/3)
- MATLAB (3/3)
- MSC Adams (2/3)
- Determination and application of constitutive material models with analytical methods (3/3)
- Revit (2/3)
- Engineering statistics (3/3)
- Python (3/3)
- Altair Inspire Extrude Metal (3/3)

AREAS OF INTEREST

- Scientific research and articles
- Machine element design and analysis
- Thermodynamics
- Numerical analysis
- System and machine dynamics
- Advanced math and physics
- R&D & P&D