

MUHAMMAD HUZAIFA KHAN GHORY

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EDUCATION

Orta Doğu Teknik Üniversitesi

Bachelor of Science in Mechanical Engineering

September 2021 – Present

Ankara, Türkiye

- Full Merit Scholar | Top 10% Cohort Ranking (Honors)

- **Relevant Coursework:** CFD using FVM (ME485), Non-Destructive Testing Methods (ME450), Industrial Fluid Power (ME481), Acoustics Engineering (ME432), Turbulence and its Measurement (ME484), Fluid Machinery (ME402).

PROFESSIONAL EXPERIENCE

Beko Corporate

Quality Assurance Management Intern

July 2024 – August 2024

Ankara, Türkiye

- Performed Measurement System Analysis using the Gage Repeatability and Reproducibility Tool.
- Acquired measurement training from certified operators in using high grade vernier calipers and highly accurate measurement tools such as the Mitutoyo Profilometer.
- Analyzed a multitude of components including the door lock hinge support and the telescopic rail rack roller support with the calipers and the profilometer.
- Used the Minitab Software to attain Gauge R&R values low as 16% across 3 operators with 2 repeated cycles for each component.

Mim Engineering Construction Steel Ind.

Production Intern

July 2025 – July 2025

Ankara, Türkiye

- Assisted in tracking the daily production workflow of heavy structural steel components for industrial facilities and bridges.
- Aided production supervisors in compiling daily manufacturing metrics and cross-checking dimensional tolerances of finished steel profiles prior to their dispatch for on-site assembly

LEADERSHIP EXPERIENCE

Measurement System Analysis Lead

Beko Corporate

2024

Ankara, Türkiye

- Directed a team of 3 engineering interns to set up and run a full Measurement System Analysis (MSA) on the production floor for Beko Corporate.
- Achieved target Gage R&R metrics to validate quality control tools, which helped identify process variations and successfully reduced assembly line blockages from 3% to 2.8% for the quarter.

PROJECT & RESEARCH EXPERIENCE

- **Eddy Current Testing (ECT) Probe Design | ME450 Project** - Designed and fabricated a custom Eddy Current Testing probe. Analyzed the resulting impedance signal data outputs to successfully identify and characterize both surface and sub-surface flaws within various conductive testing materials.
- **Conjugate Heat Transfer Analysis of a Heat Exchanger | ME485 Project** - Successfully performed a Conjugate Heat Transfer Analysis on a heat exchanger model utilizing the SimScale simulation platform to evaluate thermal characteristics. Executed analytical validation and verification procedures to authenticate the simulation results and ensure reliability.
- **Hydraulic Press Design & Analysis | ME481 Project** - Designed a complete hydraulic press system from concept to final specification, performing component selection for pumps and valves based on rigorous industrial catalog specifications.
- **ISO Standard Gearbox Design & Analysis | ME308 Design Project** - Designed a industrial gearbox assembly in according to ISO engineering standards, performing kinematic and dynamic calculations to size and select gears, shafts, and bearings. Developed custom MATLAB scripts to execute complex fatigue, load, and stress analysis computations, ensuring the long-term structural integrity and optimal operational performance of the mechanical power transmission system.

AWARDS & HONORS

- Dean's List (Fall 2024-Present)
- ELMHack International Winner (2020)
- RoboWar Finalist (2021)
- HyperCube Director (2021)
- Top 100 Merit Scholars Habib University (2021)

ADDITIONAL INFORMATION

Skills: OpenFOAM, ParaView, ANSYS Workbench, ANSYS Mechanical, AutoDesk FUSION, Siemens NX, Hopsan, FEMM, ElmerFEM, SimScale, MATLAB, Python.

Certifications: MATLAB ONRAMP by MathWorks, Detailed Introduction to ANSYS Workbench, Six Sigma White Belt.