Saud Ishtiaque Ahmed

Saud I. Ahmed | LinkedIn

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Education

National University Of Science and Technology   Karachi, Pakistan

BE Mechanical Engineering ; CGPA: 2.8   **Sep 2021 – June 2025**

Govt. College for Men, Nazimabad   Karachi, Pakistan

Intermediate; Percentage: 87%   **July 2019 – Sep 2021**

Skills Summary

- **Modelling Tools:**   Solidworks, 3D Modeler
- **Simulation Tools:**   Ansys Fluent, Solidworks Simulations
- **Soft Skills:**   Report Writing, Project Management, Excellent Communication

Work Experience

Mechanical Operations Intern | Mahmood Group of Industries | Link

- Gained practical Experience working on Allied Caterpillar Gas Engine Generators and NIIGATA Diesel Engines.
- Gained hands on experience on Steam Turbine coupled with waste heat recovery boiler for producing 0.5 MW Electricity.
- Conducted in depth analysis of different valves used in the industry and analyzed their alternatives.
- Designed 3D Model of Waste Heat Recovery Boiler along with Feed water tank and Steam Turbine.

Mechanical Systems and Maintenance Intern | Artistic Milliners | Link

- Streamlined data collection and maintenance procedures, resulting in the increase in efficiency of timely maintenance.
- Collaborated with the maintenance team to test different sensors on the mechanical Hanger ramp for better screening of the individual workers production.
- Calculated and implemented different methods to increase the combined efficiency of the Generator, Boiler and Chiller.

Projects

- Conducted CFD analysis of NASA Canard Control Missile on Ansys and analyzed effects of addition canards in missile geometry.
- CAD design and Dynamic analysis of a mini hydraulic forklift to carry industrial loads in warehouses.
- Designed Piezoelectric Pressure Sensor to monitor fuel pressure in automotive industries using COMSOL Multiphysics.
- Designed Fuel cell for Electricity generation for poultry farms using poultry waste as the energy source.
- Conducted a detailed Market research on Electric Water pumps to use economical pumps in multistory buildings and flats.

Certifications

- **Ansys R1 2019 (**NAVVTC**) |Certificate**

  Acquired expertise in Computational Fluid Dynamics, Finite element analysis, and other workbench tools.

- **Engineering Equation Solver EES (**ASRAE PNEC**) | Certificate**

  Learned to solve different thermodynamic cycles on engineering equation solver and calculate different parameters.

- **Introduction to MATLAB (**ASME PNEC**)**