Mansoor Ahmad

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Address
Takht Bhai
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Pakistan

Objective

As a third year student of mechanical engineering looking to start an internship at high standard and a professional company. Experienced in analyzing engineering problems & annual reports for several university projects. Seeking to further develop my theoretical know-how with strong mentorship in required company and to enhance level of thought dealing with professional and well organized people.

Education

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK
Bachelors of Science in Mechanical Engineering — 2020 - 2024
CGPA: 2.70/4.00

Govt: post graduate college Mardan — Mardan, Pakistan
Pre-Engineering — 2018 - 2020
Grades: A+

Govt: Higher secondary school pirsaddi — Mardan, pakistan
Matric — 2015 - 2017
Grades: A+

Work Experience

Ghulam Ishaq khan institute of science and technology — Topi, pakistan — 2020 - 2023

Have analyzed and solved different engineering problems on academic level related to thermodynamics, Mechanics of solid, Fluid mechanics and design of machines etc.
Enhanced the solving power of different engineering problems and resulted these into the simplest solutions.
Have experience of how to initiate, plan and execute a project.
Certified project management trainee of Coursera.

Academic Projects

Design of a straight contillever beam

To examine the Maximum stress developed in the contillever beam theoritically and by simulation using the computer aided software.
Finding the factor of safety and maximum shear stress.

Design of straight contillever beam subjected by linear distributed force and torque

Design the beam such as to obtain maximum strength to weight ratio using computer aided software for the simulation.
Compare the maximum Normal stress, maximum shear stress by bending and torsion, maximum factor of safety obtained theoretically and from simulation.

Design of a wire Bending machine

Design a wire bending machine which has a proper 3D model , drawing of every part and the final report of the project.

Fluid mechanics project

Investigate the contact angle of water using the lucas-Washburn equation for a straight one dimensional paper channel.

Design of any four bar mechanism

Design a four bar mechanism uses water flow as input and generates voltage potential from a piezoelectric material.

Analyses of steam power plant

Perform the analyses of steam power plant to find the thermal efficiency and mass flow rate of cooling water using EES software.

Steam power plant

Analyze every component of the steam power plant find the exergy loss of every component with varying ambient conditions and second law efficiency using EES software.

Awards & Achievements

- Position holder of BISE Mardan on the basis of secondry school performance
- District regional award on the basis of matric academic performance (stars of Mardan)
- Math expert freelancer on the market place award

Skills

- 3D Modeling through Creo software
- 3D Modeling and simulation by solidwork software
- Code with Python
- Python Numpy library
- Project management initiation and foundation
- Planing and execution of project
- Agile project management
- Microsoft office(MS word, Excel, Powerpoint)
- Communication(English, Urdu)