

SHARFAN AHAMED S

Mechanical Engineering Graduate | Thermal & Fluid Systems | CAD & Quality Analysis

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PROFESSIONAL SUMMARY

High-performing Mechanical Engineering Graduate (B.E., **8.92 CGPA**, 2023 batch) with strong foundational expertise in **Thermodynamics, Fluid Mechanics, Compressible Flow, and Strength of Materials**. Proficient in 2D drafting & 3D CAD modeling (AutoCAD, SolidWorks) along with thermal and pneumatic system fundamentals. Actively seeking a **Graduate Apprentice Trainee / Graduate Engineer Trainee (GET)** position at Kirloskar Pneumatic Company Limited to contribute to compressor design, manufacturing operations, and quality engineering.

TECHNICAL SKILLS & CORE COMPETENCIES

Core Engineering Domains:	Thermodynamics, Fluid Power & Machinery, Compressors & Pneumatics, Heat Transfer, SOM
CAD & Engineering Tools:	AutoCAD, SolidWorks, ANSYS (Basic Structural/Thermal), MS Office Suite
Manufacturing & Quality:	Engineering Drawing Interpretation, GD&T Basics, Quality Control, Manufacturing Processes
Technical Analysis:	Thermodynamic Calculations, Fluid Flow Analysis, Technical Problem Solving, Data Reporting

EDUCATION

Bachelor of Engineering (B.E.) - Mechanical Engineering

Sona College of Technology (Anna University affiliated) Salem, Tamil Nadu, India Graduated: 2023 | **CGPA: 8.92 / 10.0**

Relevant Coursework: Applied Thermodynamics, Compressible Flow, Fluid Mechanics & Hydraulic Machines, Refrigeration & Air Conditioning, Design of Machine Elements, Manufacturing Technology.

ACADEMIC PROJECTS & ENGINEERING WORK

Final Year Capstone Project: Design & Performance Analysis of Thermal / Fluid System

- Designed and modeled a thermal/fluid flow setup using CAD software, evaluating pressure drop and heat transfer parameters across operating conditions.
- Applied fundamental thermodynamic equations to optimize system efficiency, achieving an estimated 8–12% performance enhancement.

Minor Project: CAD Modeling & Structural Stress Analysis of Mechanical Components

- Generated precise 2D production drawings and 3D parametric assemblies in AutoCAD and SolidWorks adhering to standard engineering tolerances.
- Executed static structural stress and deflection analysis to verify component safety factors under peak operating loads.

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- CAD Specialist Certification** (AutoCAD / SolidWorks - 2D Drafting & 3D Mechanical Modeling).
- Advanced Technical Self-Study & Exam Preparation:** Engaged in rigorous revision and numerical problem-solving across core mechanical subjects (2023–Present).
- Registered Candidate on NATS Portal** (National Apprenticeship Training Scheme) for Graduate Engineering Apprenticeship.

KEY STRENGTHS & ATTRIBUTES

- Technical Aptitude & Core Fundamentals
- Shop-floor Adaptability & Safety Awareness
- Team Collaboration & Communication
- Fast Learner with Disciplined Work Ethic