

AMMAR IBINU BASHEER

Graduate Mechanical Engineer | CAD Design & Engineering Analysis

• AutoCAD • SolidWorks • CAD Design • Mechanical Systems

Kerala, India | Open to Immediate Relocation: UAE

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Visa Sponsorship: Open to Employment Visa Sponsorship

Availability: Immediate Start | Online Interview: Flexible - All Time Zones



PROFESSIONAL SUMMARY

Recent Mechanical Engineering graduate with strong foundation in design, analysis, and project fundamentals. Experienced in CAD software (AutoCAD, SolidWorks) and engineering projects, including Qatar Energy's North Field South LNG facility. Proficient in ASME standards, materials science, thermodynamics, and mechanical systems. Seeking entry-level Mechanical / MEP Engineer position to apply technical knowledge and contribute to diverse projects in the UAE/GCC region.

EDUCATION

PGD Piping Engineering Design and Stress Analysis	Oct 2024 - Mar 2025
First Step Education, Ernakulam, Kerala, India	
B.Tech Mechanical Engineering	Oct 2020 - Nov 2024
Federal Institute Of Science And Technology, Angamaly, Kerala, India	
Senior Secondary Education	Jun 2018 - May 2020
Al-Azhar Central School, Mala, Kerala, India	

SKILLS

TECHNICAL SKILLS

Engineering Software & CAD Tools

- AutoCAD 2D/3D (Certified), SolidWorks, Navisworks, Microsoft Office Suite.
- Technical drawings, 2D/3D modeling, design documentation.
- Fusion 360, Ansys, Prepomax, Creo Parametric.

Mechanical Engineering Competencies

- Mechanical Design & Analysis, Thermodynamics & Fluid Mechanics, Materials Science.
- Technical Problem-Solving, CAD Documentation, Design Optimization, Equipment Design.

Engineering Standards & Knowledge

- ASME Standards, ISO 9001, International Engineering Best Practices.
- Material Specifications, Mechanical Systems Design, Project fundamentals.
- Specialized knowledge in piping systems engineering (ASME B31.3 application).

SOFT SKILLS

- Adaptability.
- Communication & Teamwork.
- Problem Solving.
- Time Management.

CERTIFICATIONS & TRAINING

- **AutoCAD 2D & 3D Designing & Drafting** | First Step Education | Nov 2024
 - **ANSYS Designing** | FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY | Sep 2023
 - **FUSION 360 Designing & Drafting** | BIMLABS ENGINEERING SERVICES Pvt. Ltd | Dec 2022
 - **AVEVA E3D, Intergraph SmartPlant 3D (SP3D)** | First Step Education | Mar 2025
 - **CAESAR II Pipe Stress Analysis** | First Step Education | Mar 2025
 - **Prompt Engineering for Artificial Intelligence (1 Million Prompts)** | Dubai Future Foundation | Sep 2025
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APPLIED LEARNING EXPERIENCE

Engineering Trainee (Piping Systems Specialization)

Bhisshma Solutions and Services Pvt. Ltd. | Kochi, India | Mar 2025 - Jul 2025

Project 1: Pipe Support Engineering (Technip Energies - Qatar Energy North Field South LNG)

- Applied pipe support engineering achieving 100% ASME, API, ANSI, ISO compliance in 1,000+ support system markups on Qatar Energy North Field South LNG project.
- Developed proficiency in Bluebeam Revu, isometric drawings, PipeData-Pro for support tag creation. Learned ASME B31.3, API 650 standards through EPC project training.
- Interpreted technical documents (isometric drawings, P&IDs, equipment datasheets) for accurate support positioning and system integration validation.
- Collaborated with multidisciplinary teams (piping, structural, process, civil) maintaining design consistency, resolving conflicts in large-scale LNG projects.

Project 2: Pipe Stress Analysis (Lukoil & Ruya Oil & Gas Facilities)

- Executed comprehensive CAESAR II pipe stress analysis ensuring ASME B31.3 & ASME B31.1 compliance on oil & gas facility projects (Lukoil, Ruya).
- Modeled complex piping systems under critical operating conditions (startup, shutdown, thermal expansion) identifying overstress locations and support optimization.
- Developed specialized competencies in nozzle load analysis, stress assessment, P&ID interpretation, support configuration selection for structural adequacy.
- Performed iterative design analysis supporting engineering teams in optimized support strategy development and communicated technical findings to project teams.

Engineering Trainee (Piping Design Specialization)

First Step Education | Ernakulam, Kerala, India | Oct 2024 - Mar 2025

Post Graduate Diploma Training Program - Oil & Gas Piping Engineering

- AVEVA E3D & Intergraph SP3D: 3D modeling of piping systems, equipment layouts, structural components for Oil & Gas EPC. P&IDs, isometric drawings, PMS data; routing optimization, clash avoidance.
 - Equipment modeling from vendor drawings/datasheets: nozzle orientations, dimensional requirements, data consistency verification, 3D model integrity, piping design compliance.
 - Pipe support placement, MTO generation, isometric and fabrication drawings. Piping components (valves, fittings, flanges), material classes, specifications using PipeData-Pro.
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Manufacturing Process Intern (Injection Molding)

Quality Plumber Line Products | Thrissur, Kerala, India | May 2023

- Completed intensive internship on injection molding and manufacturing at Quality Plumber Line Products under Managing Partner Asokan P K.
 - Gained hands-on experience in manufacturing process design, mold design, thermoplastic material properties, and production workflow optimization.
 - Developed understanding of quality control procedures, tolerance specifications, and mechanical properties for injection-molded products.
 - Observed full production cycle from raw material processing to finished product inspection, acquiring practical knowledge of manufacturing operations and mechanical systems integration.
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ACADEMIC & PERSONAL PROJECTS

B.Tech Final Year Project - Automated Dry Leaf Collector

Federal Institute of Science and Technology (FISAT) | Ernakulam, Kerala, India | May 2024

- Applied mechanical design principles using AutoCAD 2D and Fusion 360 3D modeling.
 - Conducted performance experiments to assess machine efficiency.
 - Developed cost-effective engineering solutions with focus on operational efficiency.
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ADDITIONAL QUALIFICATIONS

LANGUAGES

- English: Professional Proficiency
- Arabic: Elementary Proficiency
- Malayalam: Native Proficiency
- Hindi: Elementary Proficiency
- Turkish: Elementary Proficiency

VOLUNTEER EXPERIENCE

Student Associate

Apr 2021 - Mar 2025

Society of Automotive Engineers (SAE) India

- Actively participated in engineering society activities during undergraduate studies.
- Organized technical workshops, industrial visits, and knowledge-sharing sessions.
- Developed teamwork, organizational, and professional networking skills through event coordination.

Volunteer

Nov 2021 - Oct 2023

National Service Scheme (NSS)

- Participated in government-sponsored community service, social awareness, and civic development programs.
 - Engaged in environmental campaigns, community development projects, and public welfare activities.
 - Developed leadership, teamwork, and social responsibility skills through active volunteer involvement.
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