

VISHNU PRAKASH

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MECHANICAL ENGINEER

Mechanical Engineer with 10 years of experience in manufacturing, EPC projects and piping systems, specializing in structural design, fabrication drawings, and Pre-Engineered Buildings (PEB). Proficient in AutoCAD, Tekla, and other CAD software, with expertise in automation tools including AI-driven solutions, PowerShell scripting, Excel VBA, and Power Automate. Achieved up to 80% productivity improvement in fabrication drawings through process automation. Skilled in project management, cross-functional team coordination, QA/QC compliance, and delivering high-quality engineering solutions on time and within budget.

PROFESSIONAL EXPERIENCE

EPIC PIPING INTERNATIONAL, ABU DHABI, UAE

Aug 2022 - Present

MECHANICAL ENGINEER (Pipe Support lead)

- Created General Arrangement, Detail, and Fabrication drawings for piping supports using AutoCAD.
- Executed piping support drawings, managed review/revision cycles, and approved final deliverables.
- Prepared detailed Material Take-Offs (MTOs) for piping supports.
- Developed a standalone application using PowerShell, Power Automate, and AI that automated the creation of fabrication drawings, integrated with AutoCAD and excel, achieving up to 80% increase in productivity.
- Controlled and managed engineering transmittals received from the client, ensuring full compliance with project requirements and standards.
- Created and maintained the Fabrication Engineering Master as per client standards, improving traceability and document control.
- Coordinated with Engineering, Fabrication, and QA/QC teams to resolve technical issues and ensure on-time project delivery.

WELLWORTH POLYMERS, COCHIN, KERALA, INDIA

Dec 2021 - Aug 2022

MECHANICAL ENGINEER

- Designed and engineered PVC pipe production prototypes with Mirror Finish Technology (MFT), improving surface quality and efficiency; project received National Award recognition.
- Designed and tested dies for MFT pipes to meet stringent QC standards.
- Developed in-line socketing machine designs, enhancing production efficiency.
- Built a belt traction unit for in-house product testing and prototyping.
- Delivered cost-effective, CAD-driven design solutions for manufacturing operations.

CAPRIOLE EXPERT ENTERPRISES Pvt. Ltd, COCHIN, KERALA, INDIA

Mar 2017 - Sep 2021

MECHANICAL DESIGN ENGINEER

- Designed and developed manufacturing machinery, including a 120 HP hammer mill and Toottifrutti machines.
- Created preliminary drawings and Bills of Quantities (BOQ) for multiple Pre-Engineered Buildings (PEBs), ensuring compliance with structural and safety standards.
- Contributed to the design of manufacturing plants, including a turmeric extraction plant and a chilly extraction plant.
- Collaborated with cross-functional teams to optimize project designs and ensure timely execution.

TVS SUNDARAM FASTENER LIMITED, PUDUCHERRY, INDIA

Sep 2015 - Oct 2016

NDT INSPECTOR

- Performed non-destructive testing (NDT) on components to verify compliance with quality and safety standards.
- Utilized magnetic particle testing (MT) techniques to detect surface and subsurface defects.
- Supported the company's quality assurance program, ensuring reliability of manufactured products.
- Employed on a contract basis through Neptune Inspection Technology.

MAJOR PROJECTS INVOLVED

- ADNOC Belbazem Block Development Project – NPCC
- ADNOC Optimum Shah Gas Expansion Project – SAIPEM
- HAIFA Chemicals Ammonia Plant, Israel – SAIPEM
- BOROUGE EPC Phase 4 – TECNIMONT
- Saudi Aramco Zuluf Development Project – JGC
- HAIL & GHASHA Development & CO₂ Recovery Project – SAIPEM & NPCC (JV)
- HAIL & GHASHA Development Project, Package 2 – Onshore Facilities – TECNIMONT
- TA’ZIZ Methanol Project – SAMSUNG E&A
- Sunrise Process Facilities Project – LAMPRELL
- Habshan Complex Restoration Project – PETROFAC

SKILLS

- Material Management & Constructability Review for efficient project execution.
- Strong knowledge of project planning, scheduling, and data handling.
- In-depth expertise in engineering drawings, structural systems, and piping systems, including design, materials, and fabrication.
- Familiarity with industry codes and standards such as ASME and ASTM.
- Proven experience in project management, handling multiple projects simultaneously under tight deadlines.
- Skilled in 2D and 3D CAD software
- Strong analytical and problem-solving abilities with innovative engineering solutions.
- Effective communication and teamwork skills to collaborate across departments.
- Detail-oriented with a focus on quality assurance, compliance, and continuous improvement.
- Ability to work independently and deliver high-quality, error-free outputs.

EDUCATION

- B.Tech (AMIE)– Mechanical Engineering - 2023
- Diploma – Mechanical Engineering | 2012 – 2015
- Higher Secondary Education (XII) – MRTTW | 2010 – 2012
- Secondary Education (X) – Motor Mechanic | 2007 – 2010

SOFTWARE KNOWLEDGE

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|-------------------------|-----------------------|------------------------|----------------------|
| • AutoCAD | • Oracle JD Edwards | • Blender | • AutoSpool (basics) |
| • Tekla | • Sketchup | • Solid Works (basics) | |
| • Power Automation | • Navisworks (basics) | • Open VI | |
| • Excel (Advanced, VBA) | • Microsoft office | • CodeWalker | |

PERSONAL DETAILS

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| • Full Name: Vishnu Prakash | • Nationality: Indian |
| • Date of Birth: 14 March 1994 | • Languages: English, Malayalam, Tamil |
| • Visa Status: Employment Visa, UAE | • Gender: Male |