

Khairnar Yogita Ashok

Flat no-101 Golden nest Building

Rameshwar Nagar Nashik-422015

Mob.No-9823387912

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Linkedin profile-yogita khairnar

Professional Summary

Electrical Transformer Design Engineer with 4.6 years of experience in designing, testing, and optimizing distribution and power transformers. Skilled in electromagnetic design, thermal analysis, material selection, and compliance with IEC/IS/ANSI standards. Proven ability to manage complete product development cycles from concept to production with a focus on efficiency, reliability, and cost optimization.

Core Competencies

- Transformer Design (Power, Distribution, Dry-type, Oil-immersed, wind , solar, inverter duty Xmer)
 - Electromagnetic and Thermal Analysis
 - Design Tools: AutoCAD Electrical, SolidWorks, transformer design software , excel sheet design sheet
 - Electrical Load Calculations & Short-Circuit Analysis
 - Standards: IEC, IS, ANSI, IEEE
 - Material Selection (Core, Windings, Insulation)
 - Cost Optimization & Prototyping
 - Testing & Quality Assurance
 - Project Management & Documentation
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Professional Experience

Electrical Transformer Design & Testing Engineer

Fairdeal electricals & engg. pvt nashik

22 June 2021 to 30 April 2024

- Designed 55-3150 kVA distribution and power transformer meeting IEC/IS standards.
- Performed electromagnetic simulations and thermal analyses using ANSYS Maxwell to ensure optimal performance and minimal losses.
- Reduced core losses by 0.1% through improved core material selection and winding optimization.
- Prepared detailed manufacturing drawings and BOMs using AutoCAD and SolidWorks.
- Coordinated with production and testing teams to resolve design and performance issues.
- Conducted type and routine testing, ensuring compliance with customer specifications and international standards.
- Conducted inspections for transformer.

CTPT Design Engineer

Huphen Fabricators Pvt. Ltd. Nashik

02 may 2024 to 31 Jan 2025

- Assisted in the design and development of CTPT transformers.
- Developed transformer rating calculations and prepared GA, winding, and core assembly drawings.
- Supported testing and validation of prototypes, ensuring consistent quality and performance.
- Participated in cost reduction initiatives through design standardization.
- Conducting Tests
- Design For Cubicle metering panel & customer Requirements Drawings
- Punching Program for panel Cutting Machine
- Identifying Design Problems
- Knowledge of PCC , MCC & LOW voltage panel Boards
- Hands on Experience in-AutoCad, E-plan & solid works
- Selections of Switchgears like MCB, ACB, ISOLATORS , CTPT, Contactors etc.

Electrical Transformer Design Engineer

Viviana Powertech Pvt Ltd. Vadodara

07 Feb 2025 to 30 August 2025

- Designed 25-5000 kVA distribution and power transformer meeting IEC/IS standards.
- Performed electromagnetic simulations and thermal analyses using ANSYS Maxwell to ensure optimal performance and minimal losses.
- Reduced core losses by 0.1% through improved core material selection and winding optimization.
- Prepared detailed manufacturing drawings and BOMs using AutoCAD and SolidWorks.
- Coordinated with production and testing teams to resolve design and performance issues.
- Conducted type and routine testing, ensuring compliance with customer specifications and international standards

Tendering & Cost Estimations

Electrical Transformer Design Engineer

Winsun & Lamco Transformer Pvt Ltd Pune

01 Sep 2025 to present

- Designed 25-5000 kVA distribution and power transformer meeting IEC/IS standards.
- Designed 2.5-13.5 mva Inverter duty transformer meeting IEC/IS standards
- Designed 800-4500 kVA wind & solatr transformer meeting IEC/IS standards.
- Performed electromagnetic simulations and thermal analyses using ANSYS Maxwell to ensure optimal performance and minimal losses.
- Reduced core losses by 0.1% through improved core material selection and winding optimization.
- Prepared detailed manufacturing drawings and BOMs using AutoCAD and SolidWorks.
- Coordinated with production and testing teams to resolve design and performance issues.

- Conducted type and routine testing, ensuring compliance with customer specifications and international standards
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Education

Bachelor of Engineering (B.E.) in Electrical Engineering

Pune University-2017 -70.06% (First class with Dist.)

Certification-

- ❖ Completed successfully Industrial training in “PRAJ Electrical Services, Nashik”
 - ❖ Participated and won certificate in English Certificate Examination at school level.
 - ❖ Participated and won certificate in drawing competition conducted by Government of Maharashtra Drawing Grade Examination at school level.
 - ❖ Participated and won prizes in District level Speech completion at school level.
 - ❖ Completed successfully MSCIT Course with 88 marks.
 - ❖ Presented a paper on “Automatic Switch changeover by Using Generator of PLC and SCADA” at International Journal of Electrical, Electronics and Computer Engineering vol.6.
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Projects

- **High-Efficiency 1000 kVA Transformer:** Optimized magnetic circuit to reduce no-load losses by 10%.
 - **Compact Distribution Transformer Design:** Developed compact design reducing material usage by 8%.
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Technical Tools

AutoCAD Electrical, SolidWorks ,MS Office, Eplan,

Design software transformer

- Personal details -

Full name: - Yogita Ashok Khairnar

Date of birth-19/11/1995

Marital Status-married

Gender-Female

Address-101, golden nest building, Rameshwar nagar , Gangapur road
, Nashik-422009

- Declaration-

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place-Nashik

Date-

Signature-

Khairnar yogita ashok