

Jagruti Vinayak Patil
Electrical engineer
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DEGREE – **ELECTRICAL ENGINEERING (B.E) -75%**
COLLEGE – Fr.C.Rodrigues Institute of technology, Vashi, Navi Mumbai

Work Experience : 10 years 2 months

Company	Duration	Designation
Larsen & Toubro	Nov 2015	Senior Engineer Submarine Design Centre Defence & Aerospace
Ranpise BCMPL	Dec 2014-Oct 2015	Project Director Solar Power generation
Fabrics	November 2013-October 2014	Control Panel &Power transformer Design engineer
Lustre engineering Corporation	June2012-Nov2013	Transformer design & Production

Published Research paper at IEEE International Conference ;

- Hybrid Power Generation System Using Solar and Wind Energy.
- High Voltage Dc Transmission System of Submarine

Post Graduate Diploma in Industrial Automation

Key skills

- Design of Electrical schematics of Indian Submarines.
- Knowledge of Project Lifecycle Management (PLM)
- Solar Power system R&D work for tracking Maximum Sun radiation
- Worked on Goa Ship Yard projects
- Design of Hybrid charge controller units for offshore electrical system
- Design of Solar Mounting equipment for International Solar project for Abu Dhabi .
- 5 years work experience on AutoCAD.

- Knowledge of Management such as Cost benefit analysis, Profit analysis, Time management etc.

Key Technical Skills :

3D Modelling Using Catia Software

- Modelling Of Electrical Equipment
- Experience of preparing & modifying 3D models of electrical equipment as per customer requirements.
- Knowledge of NX software.

Control Panel Design

- Design & Estimation of Control Panels.
- As per Single line diagram prepare complete electrical equipment (such as MCB, MCCB, Bus bar, Relays) layout along with estimation of the same.

Power Transformer design and manufacturing :

- Knowledge of *Instrument transformers*
 1. **400kv** with special class PS core
 2. **220kv** Metering CT (Current Transformer) Metering Core
- Transformer testing [With Measuring and Protection CT]
- ISF -Instrument security Factor ,Knee point voltage ,Ratio & % Phase angle Error, Winding Resistance Test
- Connection with Auxiliary transformer As Inductive Burden
- Transformer Insulation
- Manufacturing of transformers (Including Ovening Process ,Assembly Division etc)

**Computer Skills : Autocad 2016, Including 2D -3D , Matlab Simulation
PLC –Scada interfacing, Catia V5, PLM, Etap
software, Dilux software awareness**

Academics:

Year	Institution	Degree	University/Board	Percentage
2012	Fr.C.R.I.T	B.E	Mumbai	75%
2008	Birla college	HSC	Mumbai	74%
2006	G.V.M	SSC	Mumbai	84%

Certification :

- Management topics based on Profit Analysis, Risk factors, time management from Symbiosys Pune.
- Smart Grid

Projects Activities:

- Hybrid Power System Design containing Solar & wind energy experimental results tested on Matlab 2014
- Offshore MB platform pipeline Electrical projects - Control panel designs.
- Transformer production for Shipyards.
- Solar power system assembly (PV Module, MPPT, Battery charge Controller, Buck Converter).

Work Experience L &T :

Domain	Description
Submarine Design	Released 3D data,2D dwg of electrical installation, cable routine, cable hanger installation , terminal connection diagram of Diesel Electric Submarine. Was involved in design of submarine and submersible platform as part of team comprising of naval architects,marine engineers,electrical and weapon engineer from concept of commissioning.
Quality Assurance	Performed detailed analysis of Binding Data,Bill of material and Internal scheme of OEM/ vendors,met required standards.
Site Support for Submarine Construction	Performed Site support at Vizag .Performed various activities such as Dwg Change Requirements(DCRs),Clarified Doubts of Site engineers regarding Electrical schematics prepared at Design Centre.Visited P26 Submarine practically .

• Electrical Energy Audit:

Performed on Chemical industry to do auditing of electrical machines. Check the Plant Energy performance. Verify individual machine's performance in terms of its losses.

Done on the basis of Electrical energy management.

Involves estimation of system losses and their alternative solutions.

Methodology:

Realizing the potential for the improvements Auditing was done in two ways:

1. Preliminary Audit (saving without any investment)
2. Detailed Audit (large investment involved)

Industry: Korde chemicals, Pavne, Turbhe MIDC

Language Capabilities

- English (medium of instruction)
 - Hindi
 - Marathi
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Declaration:

I do hereby solemnly declare that the facts mentioned above are true and correct to the best of my knowledge and belief and nothing has been concealed.

Place: Thane

Jagruti Patil