

# SAGAR T.PATIL

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Thane 400605.

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## Career Objective:

To make strong contribution to organizational goals through my knowledge acquired so far to the best of my abilities, which will help in achieving organization excellence in this competitive market.

## Educational Qualifications:

SSC – 72.13%	Mumbai Board
Manisha Vidyalayakalva (W) Thane 400605.	2003
Diploma in Electronics and Communication – 70.48% (FIRST CLASS)	MSBTE
Institute of Civil and Rural Engineering College, Gargoti, Kolhapur	2006
B.E in Electronics – 61.32% (FIRST CLASS)	University of Mumbai
Lokmanya Tilak college of Engineering, Koperkhairne, Navi Mumbai	2009

## Experience: 1

Larsen & Toubro Ltd  
(C&A)

**Assistant Manager-Product Solar**

From 24<sup>th</sup> Oct 2016

## ➤ Assistant Manager-Product (Product – Solar)

*Current* | Larsen & Toubro Ltd. (Control and Automation Division) – Navi Mumbai

### Company Profile :

**Larsen & Toubro:** Larsen & Toubro is an Indian multinational engaged in technology, engineering, construction, manufacturing and financial services with USD 16 billion in revenue. It operates in over 30 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over seven decades.

**L&T Electrical & Automation (E&A):** is a major business portfolio of L&T Group. E&A's business basket comprises low and medium voltage switchgear and electrical systems, energy management systems and metering solutions, and automation solutions.

Its products and solutions cater to several segments: industry, utility, building and home, infrastructure and agriculture. It has five manufacturing facilities in India and six spread over South-East Asia, Middle East and Europe.

**Control & Automation:** Business of L&T offers integrated Electrical & Automation solutions for Oil & Gas, Cement, Metal and other Manufacturing industries, Infrastructure as well as utilities like Power and Water. We have experience of over four decades in diverse segments and proven capabilities across the entire value chain - comprising Proposals, Design, Engineering, Project Planning, Integration, Software Development, Integrated testing / FAT, Commissioning / SAT and After-Sales Service.

### **Job responsibilities as Assistant Manager Product –SOLAR Inverter**

- Responsible for manufacturing of solar inverter stacks to ensure it meets the manufacturing deadlines.
- To be responsible for the development and the cost reduction in inverter panel and inverter stack.
- To be responsible for the providing and analyzing the protection schemes for inverter stacks.
- Responsible for set up of stack manufacturing facility with required quality guidelines.
- Responsible for the setup of inverter test set up and test specifications.
- Responsible for providing the test specification to testing engineer and review the test reports with respect to design parameters.
- To inspect and review engineering drawings and schematic releases.
- Responsible for the providing technical guidelines to the staff in servicing and commissioning.
- Handle the tasks of monitoring the inverter performance and daily generation.
- Familiar with the standards and guidelines of solar power generation industry.
- To prepare daily reports; weekly summary and evaluation of monthly target of the stack productions.
- Interact with customers and guide them about the whole solar inverter and its effectiveness with respect to the grid codes.

### **Skills:**

Analysing Information, Reporting Research Results, Technical Understanding, Promoting Process Improvement, Developing Standards, Managing Processes, Manufacturing Methods and Procedures, Supports Innovation

<b>Experience: 2</b>	<b>SEMIKRON ELECTRONICS PVT.LTD.</b>
<b>Design Engineer, Semikron Electronics Pvt. Ltd. Mahape, Navi Mumbai</b>	<b>18<sup>th</sup> April '11-'21<sup>st</sup> Oct16'</b>

<b>Roles and Responsibilities:</b>
<b>Design Engineer, R&amp;D Department, Stack-Solution</b>

- Design the Rectifier, Inverter, and Chopper for AC DC drive, UPS applications as per Customer enquiry received from marketing team.
- Design the Medium/High Voltage and Medium/ High Current Rectifier (10KW to MW) and Inverter Stacks (from 10Kw to500KW) as per customer Requirements and make Raw Material Costing and submit to Marketing team,
- Work with CAD Engineers to make the proposal and Manufacturing Drawings for Rectifier and inverter stacks. Maintain quality documents for ISO purposes.
- Make Short and Parent BOMs for Received Orders and submit to purchase and Production, CAD Engineer Team.
- Conducts and supervises the requirements of Customer and guide the CAD Engineers to Make Proposal Drawings and Manufacturing Drawings after receiving the approval from Customer.
- Conducts or observes the stack production process while stack is getting manufactured.
- Issue the testing specification and testing Procedures to Test Engineers for testing the Stack.
- Conducts or observe the stack performance as per design by comparing design results with testing results.
- Conducts inspection of customer and discuss the details and queries regarding stack in minutes of meet.
- To provide converter user manuals to customer.
- As specified, maintain the ISO documents like Design Plan, Design Change Notification and Design review Records for audit purposes.
- Work closely with the Production, Quality and procurement and marketing team members during Manufacturing of Stack.
- Responsible for Maintaining ISO Related Documents to meet quality objectives defined by the Organization. Represented as a Auditor for R&D department for year 2014-2015 in internal audits and External Audits.
- Open Communication with quality team in terms of reducing and preventing discrepancies in the process, Document followed (if any) through conducting individual department meeting.
- Monitoring & analyzing Product performance and provide solution for failure of IGBTs, Thyristors and diode devices, and Drivers of Inverters. Monitor the ageing of each complaints and co-ordinate with all concern functions/department to get the customer delight.

## Achievements

- Successfully tested and commissioned 1.2 Mw inverter.
- Successfully design Rectifier stacks up to 4000 Amp.
- Successfully Design the Inverter (Dc to AC) converters more than 1 MW Ratings for Solar and Wind Energy.
- Successfully attended Fire Safety and life saver Trainings i.e. Fire break out, Electric shock, First aid etc.
- Involved in standardizing Device and drawings for teaching kits for IIT Requirements'.
- Successfully Designed Stack Requirement for ABB, BHEL, GE Automation, Siemens, SSD Drives, &T in Designing Inverter and Rectifiers Stacks for AC and DC Drives applications.
- Attended National workshop on power Electronics (NWPE-2015) at Delhi Technological University, Delhi during 6-7 November 2015.

## Work Experience: 3

**TATA TELESERVICES PVT  
LTD.**

**GIS Engineer, Network Planning , GIS**

Jan '10-March'11

## Roles and Responsibilities:

**GIS Engineer, Network Planning.**

### Planning and GIS Mapping:

Collecting the Geographical information about customer DP,CCC(Circuit Connection Chamber) from network operation teams and maintain the given details in GIS software (Smallworld 4.0).

Also maintain the fiber Ring data obtained from Fiber Audit team.

Provide the updated details and fiber as well as wired network details to maintaining team.

## Academic Projects:

- Project based on PWM based 500 Watt MOSFET Inverter that converts DC to AC.
- 8051 Microcontroller Based Escalator.
- Detection of camera motion for Short Boundary Detection in Video Sequences using MATLAB 7.0.

## Academic Achievements

- Former member of EESA Forum at I.C.R.E College Gargoti in year 2005-06.
- Participated in training program on Programmable Logic controller (PLC) Allen Bradley in ICRE College, Gargoti.
- 2<sup>nd</sup> prize in Poster presentation at Lokmanya Tilak College of Engineering for EESA 2008-09.

**Software Proficiency And Other :**

- ORCAD 16.5,Pspice, PCB Editor, Solid works 2013.
- Matlab R2013 Basics.

**Skills:**

Good writing skills, communication skills, proficient in English.  
Hardworking, dedicated to tasks, ready to meet deadlines.

Personal Profile:	
Date of Birth:	February 15, 1988.
Languages known:	English, Hindi and Marathi.
Nationality:	Indian.
Marital status:	Married
Interests:	Travelling, Playing Cricket, Listening music,

**Declaration:**

I, hereby declare that the information furnished above is true to the best of my knowledge and solely bear the responsibility for the correctness of the above-mentioned particulars.

Date:

Place:

**(Mr. Sagar Patil)**