

Jaydeep Sejpal

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OBJECTIVE

To efficiently utilize my knowledge and skills ardently for sake of the organization and also gain the professional growth while being flexible and resourceful.

EXPERIENCE

Presently working at:

AHMEDABAD

Rai university, Ahmedabad – Assistant Professor

2019

ROLLS AND RESPONSIBILITY

- Fostering departmental collegiality and fulfilling individual responsibilities as set out by the Head of Department and/or other senior colleagues.
- Carried out practical sessions with explanation about the purpose of the experiment and the procedures that follow to seek results.
- Actively contributing to departmental teaching administration.
- Coordinate with TPO (Tanning and placement officer) for Arrangement of industrial Visits and placements drives.
- Teaching, examining & guiding undergraduate level students.

Zaral Electrical, Vadodara– Management trainee

2015-2016

ROLLS AND RESPONSIBILITY

- Generate enquirers for the metal clamp, double door electrical box, conduits pipes, cable tray Earthling cable and plates.
- Prepare presentation and consult the client.
- Communicate with Vendor for required material.
- Generate the lead from Pan Gujarat convert it in to business.
- To prepare the electrical drawings as per customer requirement.

EDUCATION

M.Tech – Power Electronics CGPA- 8.1

Engineering College – L.E Collage Morbi

University – GTU

Morbi

2016-2018

B.E – Electrical CGPA- 6.74

Engineering College – Parul Institute of Engineering & Tech

University – GTU

AHMEDABAD

2010-2014

Higher - Secondary School Certificate (HSC) -64%

Board - Gujarat Higher Secondary Education Board.

School –Kamani Forword High School

AMRELI

2009-2010

Secondary School Certificate (SSC) – 76.6%

Board - Gujarat Higher Secondary Education Board.

AMRELI

PROJECTS

M.E Project

Power Quality improvement through Shunt active power filter:

Various power Quality parameter should be under desired standard. Most savior and frequently facing issue is current harmonics and reactive power in system. to compensate both of them shunt active power filter is used and simulated un MATLAB environment and hardware implemented using RT-LAB

PROJECTS ON MATLAB/SIMULINK

Bidirectional DC-DC converter.	Dec 2018
Three phase three level and Three phase five level multilevel Inverter	Nov 2018
Grid connected Three Phase shunt active power filter	Oct 2017
PV MPPT based grid connected solar inverter.	Sep 2017
High efficient synchronous Buck Converter	Aug 2017
Boost converter designed with MPPT	July 2017

HANDS ON PRACTICE ON HARDWARE DESIGN AND IMPLEMENTATION

- ✓ power semiconductor component selection.
- ✓ PCB assembling, Testing, Trouble shooting.
- ✓ Schematic capture and PCB Design using EGALE.
- ✓ Driver card design for various power electronics converter.
- ✓ Experience on laboratory equipment fluke measurement devices i.e. multimeter, power analyzer, Tektronix oscilloscope(DSO), signal generators.
- ✓ Power supply design for dc-dc converter as well SMP.

Three Phase shunt active power filter (1KVA)

- Driver card design for TLP-250
- IGBT based Six switch inverter
- Controller used-OPAL-RT
- Digital signal oscillator(DSO)-Tektronix200
- Sensor cards and three phase variac

THREE PHASE TWO LEVEL INVERTER (1KW)

- Driver card design for TLP-250
- IGBT based Six switch inverter
- Controller-Arduino MEGA 2560

DESIGN AND IMPLEMENTATION OF BUCK CONVERTER(100W)

- 24V -5A implemented with MOSFET

PUBLICATION

2018 IEEE International Conference on Current Trends Towards Converging Technologies," Comparison Of 3-Phase 3- Wire Shunt Active Power Filters Through Current Control Topologies"

AHMEDABAD
2017

TECHNICAL SKILLS

Proficiency on software and Hardware

- | | |
|------------------|------------------|
| ▪ MATLAB 2016 | EGALE |
| ▪ PSIM | Proteus |
| ▪ C language | OPAL-RT |
| ▪ dSPACE CP-1104 | Arduino MEGA 256 |

INDUSTRIAL TRAINING

1. M. PANCHAL & SONS, MAKARPURA GIDC, VADODARA. WHERE I LEARNED,

Vadodara

- Application of Automation in industry, History of Control system, Relay Logic, PLC Architecture & Working.
- Types of Input/output (I/O) Signal & Module Wiring scheme of I/O modules.
- Power up & Status Diagnostic. Worked on Siemens Software SIMATIC Step 7 & TIA portal.
- I/O Mapping and Memory Organization.
- Run time Tools used Siemens PLC -1200 and Siemens VFD (V20) and get aware of commissioning of Electrical drives

2. L&T TECHNOLOGY (2016-17)

VADODARA

- Electrical Drives (L&T CX 2000 and FX 2000)

Induction Motor Control and Fault detection using PLC” completed in M.Panchal & Sons, Vadodara

M.E project(duration – 1 year, 2017-2018)

MORBI

Last year major project on “**Power Quality Improvement Through Three Phase Shunt Active Power Filter (2017-18)**”.

DECLARATION

I hereby declare that all the above information furnished by me are true and correct to the best of my knowledge.

Date: 1TH January 2019

Place: Ahmedabad

JAYDEEP SEJPAL

