

MOHIT RAJESH CHAUDHARI

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Objective

Looking for an environment where I can get exposure and nourishment to my knowledge and skills. Timely upgradation with latest innovations in my sector without limiting self to any particular field or sector and to utilise it in organisation's and so personal growth.

Experience

1 March 2021 - Present	Soyo System, Jalgaon Manager, Research and Development. Experience in Single Phase and Three Phase Hybrid Solar UPS, Solar Inverters, Three Phase Half Bridge and Full Bridge Inverters and UPS, Solar Pump Controllers, VFD Drives, Solar Street Lights, Lead Acid Batteries, CCCV Battery Chargers, Servo Controlled Stabilizers, Etc.
1 April 2019 - 15 February 2021	Sungarner Energies Pvt. Ltd., Greater Noida. Senior Engineer, Research and Development. Experience in Single Phase and Three Phase Online UPS, Static Inverters, Hybrid Solar UPS, Solar Static Inverters, Solar Home Inverters, E-Rickshaw Chargers, PCB Designing, SMPS Power Supply, Schematic Designing, BOM, Etc.
1 April 2018 - 31 March 2019	Vrinda Nano Technologies Pvt. Ltd., Gurgaon Intern Experience in E-Rickshaw chargers, Surge Protection Devices, Array Junction Box, String Combiner Box, String Monitoring Box, Etc.

Education

2019	G. H. Raison College of Engineering, Nagpur. M.Tech in Power Electronics and Drives 8.19
2017	North Maharashtra Knowledge City, Jalgaon. Bachelor of Electrical Engineering 7.23
2014	G. H. Raison Polytechnic, Jalgaon. Diploma in Electrical Engineering 63.65
2011	B. G. S. Vidyalaya, Jalgaon. SSC 81.27

TOOLS AND SOFTWARES

Altium Designer Ver. 20.1

Protel Ver. 99SE

EasyEDA PCB Designing

STM32Cube

MPLAB IDE Ver. 8.92

STM8 Visual Programmer

Projects

CCCV Charger for New Batteries in Battery Manufacturing Plant.

Designed a constant current battery charger for a battery plant where gravity of the battery was raised and maintained to specified level in half of the time. Conventional SCR based chargers usually takes two days to maintain the gravity with extremely low PF of 0.65 lag and efficiency 37%. This new designed charger maintained the gravity in 24 hours. It also improved the Efficiency to 95% and PF to 0.95.

20KVA 3P-3P Inverter with 20KW Solar MPPT For Co-Generation with Biogas Generator.

Successfully tested an Inverter with Biogas generator in co-generation. The major challenge faced was to synchronise inverter with poor power quality of generator with rugged hardware design.

22KW IGBT based charger for better efficiency and low cost over SCR based charger.

Designed a controlled charger for online UPS with high efficiency and at comparatively lower cost than 12 pulse SCR based charger.

8KVA 1P-1P Inverter Designing with Two Parallel 8KW MPPT for a Remote Telecom Site

In this project I have done electrical and electronics component selection and complete hardware designing, initial testing as well as site commissioning with DG automation.

Off-Grid Hybrid Solar Power Conditioning Unit For Critical and Non-Critical Loads.

The project was based upon the solar hybrid inverter, where it was design and modified to efficiently manage battery backup as well as load. It was a combination of UPS and Inverter which was practically tested on more than 60 Bank branches in uttar Pradesh.

20KVA 3P-1P Online UPS for Non-Linear Load.

In this project inverter is designed with lower DC bus voltage and high surge current handling capacity upto 200A.

30KVA 3P-3P UPS with 30KW Solar MPPT for an Oil Distillery.

As a project head I was assigned for electrical and electronics component selection and complete hardware designing, initial testing along with APFC control panel interfacing.

Skills

Problem solving

Testing and Troubleshooting

Flexibility

Responsibility

Critical thinking

Communication

Teamwork

Project management

Negotiation

Activities

Industrial training - Hands on experience and working on HT/LT control panels, circuit breakers, distribution panels.

Industrial Automation Training - Hands on experience and working on PLC, SCADA, HMI, AC and DC drives, Etc.

Working experience on 8 stage and 12 stage APFC control panels.

Training in single phase and three phase motor starters, motor protection relays.

Knowledge of Synchronising Panels, Auto Mains Failure Panels.

Knowledge of PID controllers, timers, limit switch, various temperature sensors.

Publication

Off-grid hybrid solar power conditioning unit for critical and non-critical loads.

Published on IEEE 2019 international conference on intelligent computing and control systems (ICCS)

Analysis of object classification and detection methods to mitigate power utilisation

Published on IEEE 2019 2nd international conference on intelligent communication and computational techniques (ICCT)

Off-grid hybrid solar power conditioning unit for domestic purposes.

Published on IEEE 2019 international conference on computing, power and communication technologies (GUCON)

Interests

Weight lifting

Trekking

Achievements & Awards

Winner in Robo-War event held at BRAC's VIIT, Pune

Winner in Robo-Race event held at S.S.V.P.S., Dhule

Winner in Robo-soccer event held at G.H.Raisoni College of Engineering, Jalgaon.

LANGUAGE

Marathi

Hindi

English

Personal Details

Date of Birth : 10/05/1995

Marital Status : Single

Nationality : Indian

Gender : Male