

MOHAMMED SHEHZAD K SALIM

Passport No: U5204485 | mohammedshehzadofficial@gmail.com
+91 8921987686 | www.mdshehzadportfolio.tech | LinkedIn : [Mohammed Shehzad K Salim](#)

PROFESSIONAL SUMMARY

Dynamic Electrical and Electronics Engineer with progressive responsibility in solar project management, sales, and technical execution across residential, commercial, and utility sectors. Extensive hands-on experience in high-voltage OHTL and UGC transmission systems (110kV and above), enabling expert-level integration of solar PV plants ranging from 25kW to 200kW with national grid infrastructure. Demonstrated ability to deliver end-to-end project coordination, substation design, power system planning, and vendor management for multi-megawatt solar and transmission projects. Recognized for uniting technical depth with leadership in cross-functional teams, ensuring efficient, compliant, and scalable energy solutions for modern utility demands.

SKILLS

• ELECTRICAL SYSTEMS

- Solar PV System Design, Substation Layouts, Power Distribution, UPS Systems, AC-DC / DC-AC Converters, OHTL Design, Power Transmission, Under Ground Cable design.

• DESIGN & SIMULATION

- PVSyst, LTSpice, ETAP, PCB Design (Altium), MATLAB/Simulink

• EMBEDDED SOFTWARE

- Verilog HDL, Embedded C, FPGA (Efinity, Icarus Verilog)

• PROJECT PLANNING & GIS TOOLS

- Primavera P6 (Certified), ArcGIS

WORK HISTORY

REGIONAL SOLAR PROJECT & SALES MANAGER, KIAH ENERGIES PRIVATE LIMITED, KAKKANAD, KERALA, INDIA – AUGUST 2025 - PRESENT

- Leading solar project sales and technical execution across the region, with direct responsibility for the successful delivery of multiple grid-connected PV projects ranging from 25kW to 100kW, including residential, commercial, and utility-scale plants.
- Coordinated and managed engineering, procurement, and construction for 25kW, 50kW, and 100kW solar panel installations, ensuring compliance with national grid standards and efficient transmission integration.
- Applied advanced electrical systems knowledge in transmission and cabling—especially OHTL and UGC networks above 110kV—facilitating robust grid interconnection for all solar installations and improving overall system reliability and scalability.
- Enabled superior project outcomes by leveraging deep expertise in substation planning, power evacuation, grounding, and safe termination practices developed through previous high-voltage transmission projects.

EXTERNAL SOLAR PROJECT & SALES CONSULTANT, JUMBO SOLAR POWER, ALUVA, INDIA – OCTOBER 2022 - APRIL 2025

- Company Overview: MNRE-approved vendor ranked 13th among Kerala's top 50 vendors by the Central Government.
- Supported solar PV substation integration with national grid networks utilizing OHTL and UGC connections at voltages of 110kV and above.
- Oversaw engineering and execution for a portfolio of solar projects (25kW to 200kW), aligning technical design with grid transmission protocols to optimize efficient energy delivery and future expandability
- Contributed to the technical specification, vendor selection, and execution of fiber optic communication networks (OPGW, OFMR) used in grid-connected solar PV generation infrastructure.
- Collaborated on KSEB-supported DCR and Non-DCR solar projects, ensuring timely delivery and client satisfaction.
- Participated in planning and documentation of grid interface assets such as link boxes, power cables, and termination kits, aligning solar generation outputs with high-voltage transmission standards.

GIS ENGINEER, NEST DIGITAL PVT LTD , KOCHI, INDIA – MAY 2019 - SEPTEMBER 2022

- Played an integral role in electrical utility planning and network layout development for substation and high-voltage transmission projects, specifically focusing on OHTL and UGC systems of 110kV and above.
- Utilized ArcGIS for mapping transmission routes and underground cable networks, supporting spatial planning and field coordination for large-scale utility projects
- Scheduled and tracked complex project timelines using Primavera P6, ensuring timely execution of transmission infrastructure works, including conductor, hardware, and surge arrester installation for 110kV networks.
- Contributed to GIS database creation covering grounding conductors, cable terminations, and key transmission assets in OHTL and UGC circuits, supporting project documentation for compliance and future maintenance.
- Presented technical reports and findings to stakeholders, effectively communicating complex GIS concepts in a simplified manner.

DESIGN ENGINEER, UNITEK POWER SOLUTIONS INDIA LTD , KOCHI, INDIA – DECEMBER 2017 - JANUARY 2019

- Designed and developed high-voltage electrical systems including 3-phase UPS and AC/DC converter units for critical rail and industrial infrastructure, with a notable focus on the 110kV UPS for Greater Noida Metro Rail.
- Led design efforts involving specification and integration of surge arrestors, insulators, cabling, and earthing for above 110kV projects, coordinating vendor engagement and technical compliance checks with key manufacturers.
- Supported the technical review and design adaptation for OHTL hardware, cable joints, termination kits, and management racks in transmission and substation projects, ensuring functional reliability for HV networks.

EDUCATION

M.TECH IN ELECTRONICS AND COMMUNICATION, MAR ATHANASIOS COLLEGE OF ENGINEERING, KOTHAMANGALAM, KERALA - MAY 2025

- Relevant Coursework: Advanced Digital System Design, VLSI Design Methodologies, Embedded Systems Programming, FPGA Prototyping
- Internship, Research & Development Engineer, Marine Electrical India Limited
- Dissertation: Innovative FPGA Controller Card For Inverter Systems
- UART Controlled Stopwatch using FPGA module
- FPGA Hardware Designing & UART Interfacing
- Three Phase Inverter Designing and Hardware Implementation
- FPGA Controller Card Designing and Hardware Implementation

B.TECH IN ELECTRICAL AND ELECTRONICS ENGINEERING, K M E A ENGINEERING COLLEGE, EDATHALA, KERALA - 2017

- Capstone Project: Led a team to develop a "Safe Car Drive" system integrating sensors and image capture to enhance driving safety.
- Completed specialized courses in Power Electronics and Renewable Energy Systems, gaining a strong foundation in power generation, transmission, and distribution technologies.

PROJECTS

M.TECH PROJECT, MARINE ELECTRICALS INDIA LTD , KOCHI, INDIA – JUNE 2024 - JUNE 2025

- Designed FPGA based controller card and 3 phase inverter.
- Prepared project presentations and reports to assist senior staff.
- Presented findings from research projects at industry conferences, to establish a strong idea for my project.
- Maintained up-to-date knowledge of industry trends, standards, regulations, allowing for proactive adaptation of products as needed.
- Collaborated with other departments to facilitate successful project completion.
- Developed comprehensive engineering documents for all projects.