MUNIBA KOKAB

ELECTRICAL ENGINEER

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PROFESSIONAL STATEMENT

Certified Electrical Engineer aspiring to work as Design and Estimation Engineer in a Consultancy Organization. Deep interest and consideration as Draughts person Electrical. Developed strong analytical and challenging Designs. Learned advanced courses and completed essential training to qualify for LEVEL 1 Engineer. Attended CPD exercises and had worked as Trainee Engineer at FESCO 220/132kV Grid Station, Attended and passed General Electric 5months Extensive Program about Power System, Generation 11kV/500, Transmission (overhead) and Distribution (11kV/415V). Worked as Electrical Design Engineer at NEORON Solar Company and have been able to develop 100+ designs for industrial and commercial clients. Worked as Trainee Design Engineer in SG power Distribution UK. Recently, Attended and completed Engineer UK without Boarder UK 2months Extensive Engineering program. Currently working as Trainee Design Engineer in DACI Utilities Engineering Consultancy.



EDUCATION

SSC | Matriculation (Workers Welfare School for Girls)

2013 - 2015

Passed with A+ Grade that accounts for 88.81

HSSC | Punjab College

2015 - 2017

Passed with A+ Grade that accounts for 88.81

BACHELOR'S IN ELECTRICAL ENGINEERING | UET-LAHORE

2017 - 2021

Passed with 3.285/4.0 Cumulative Grade Point Average

PROFESSIONAL EXPERTISE

Trainee Design Engineer | DACI Utilities Engineering Consultancy

London England United Kingdom

JUNE 2022 - PRESENT

Responsivities/Accomplishments

- Responsible for Multi-utility Designing Electric, Gas and water for different ICP's, UIP and SLO following NJUG's Guidelines.
- Electric designing for Housing Schemes for different ICP's under NERS according to DNO's G81 Standards, BS7671, ENA EREC for all NERS providers.



Calculating ADMD and performing Windebut calculations for Electric designs w.r.t DNO's and IDNO's Standards.

- Preparing Cable route plans, cutout, and fuses selection for different projects Load scheme.
- Calculating Nexa and performing Gaswork Calculations for Gas Designs for GT's and IGT's Standards.
- Documenting Engineering reports, Preparing Approval pack, filling 153a and 138a Forms and all legal information forms for Electric, Gas and water designs Approvals and submissions.
- Understanding of CDM regulations and ENA_EREC_G99 and G98 and ENA-EREC S34 documents.
- Preparing SLD's and EVCP Scheme, adding TBS & Pumping stations, dealing with Generation in Electric scheme as required by client and deeming calculation in ADMD for respective schemes.
- Preparing Designer risk assessment for any design if required indicating the risks, risk levels, mitigation of risks and residual risks.
- Preparing water design for WIRS provides SLO's for different water supply companies across uk.

Electrical Engineer | Engineers Without Boarders UK

London England United Kingdom

MARCH 2022 - MAY 2022

Responsivities/Accomplishments

- Understanding United Kingdom Statement of Ethical Principles with global responsibility of Engineering
- Understanding morally responsible Engineering practices requirements globally in professional work for worldwide future goals achievement & betterment of sustainable environment.
- Learning of being responsible as Engineer and role of Engineer in action for UN Sustainable Development Goals 2015 which include access to energy and water, health and food security.
- Learning to embedded engineering into Globally responsibility using Kate Raworth's Doughnut Economic model.
- Learning Participatory & inclusive approaches to Engineering and role of Engineer in practice.

Trainee Design Engineer | SG Power Distribution (PVT). LTD

London England United Kingdom

MARCH 2021 - APRIL 2022

Responsivities/Accomplishments

- Completed diverse LV -11kV designs for different schemes in UKPN, SSEN, and NPG areas etc. in line with ICP's policies and procedures as well as companies design process.
- Designing and planning of DNO/IDNO Networks to engineering standards.
- LV Electrical designs for residential and commercial properties. This includes complete suite of drawings and reports including cable sizing, cable rating calculations, cable route plans, multi-utility route design, Calculation of Volt drop and cable loadings using WinDEBUT, crater study report and Material specifications.
- Earthing Design Assessment for new substations, calculation of step voltage, touch voltage, Transfer
 potential, additional rods & electrode, calculation to get required EPR for different types of substations
 using soil resistivity and topographical maps.
- Assisting ICPs under various special engineering difficulties on site during laying of cables and construction phase.
 - Delivering the project from initial design stage to construction stage.
 - Can Apply for POC for electric.
 - Carrying out managerial and non-managerial activities required for the company.
- Interpret technical documentation relating to the design of electrical substations.
- Possess good problem-solving skills and an ability to make decisions relating to the production of substation designs.
- Managing and priorities work to ensure project timescales are met.
- Preparing complete construction 3D Drawing package of new substation using specialized 3D REVIT software.

Electrical Design Engineer | NEORON ENERGY SOLUTIONS (PVT). LTD

AUGUST 2021 - FEBRUARY 2022

Responsivities/Accomplishments

- Preparing On-Grid Net-metered, Off-grid and Hybrid design, calculations, 3D sketches,2D diagrams, schematic drawings, working drawings, develops details and edits specifications.
- Design of Solar System Solutions ranging from 5kW to 4MW standard or customize Solar projects for commercial and residential sites.
- Analyzing correct azimuth, angle of solar panels, height and size of solar panels standard L2, L3, L4
 or customize 14-gauge frames to get maximum power generation while having minimum clipping,
 wiring, mismatch and shading losses for different company's projects.
- Design of electrical systems related to building services such as power distribution, lighting, fire alarm, earthing and others deem relevant.
- Assisting Senior / Lead Electrical Design Engineers on one or several projects depending on size, type and complexity.
- Applying sound engineering principles in the development of design solutions and the production of contract documentation i.e, Quotations and invoices whilst following instructions and guidance.
- Assuring the correctness, accuracy, compatibility of inverters with panels and complete multidisciplinary coordination of the design documentation prepared by the assigned team.
- Understanding and implementing project management principles and able to work within project budgets and designing to budget.
- Lead installation and commissioning activities of the 630A and 1250A MV panels, 8x2.5MW transformers.
- Lead MV cable laying and testing (Phase test, megger test, highpot test, sheath test) related to cable pulling and jointing activities.
- Responsible for execution of 6.3KV overhead transmission line from solar park to the grid station, electricity poles erection, conductor laying and testing, stringing of the conductor.
- Commissioning with the client existing MV panels, coupling with the tube busbar at 6.3KV ABB panels.
- SCADA system installation for the plant.
- Preparation of FAT and SAT report, coordination with the client in as built drawings submission.
- 5MW: Solar Plant at FECTO Cement was part of the testing and commissioning team.
- 8.7MW: Solar Plant at Askari Cement Company Limited surveyed,
- designed, prepared project implementation plan and system layout, lead
- execution activities including mechanical, civil and electrical, carried out
- Testing and commissioning of the site.
- 1MW: Solar Power Plant at Frontier Paper Products Limited, designed and executed

TRAINEE ENGINEER | FESCO-220/132kV GRID STATION

MAY 2021 – AUGUST 2021

RESPONSIVITIES/ACCOMPLISHMENTS

- Calculation of Electrical Load, Analyzing and Inspecting Lighting lux, DB details, Cable Ampacity, type of cable and it's selection like XLPE, PVC/PVC, AWG; cable pulling and laying with needed equipment, Cable Ducting-Power and Telecom, Earthing and lighting Protection
- Learned the connectivity of Grid Stations, 1 Regional District Grid Connectivity with 500kVA, 3 Sub District Power Stations
- Analyzed and observed the Single Line Diagram of whole Sub Station Equipment
- Leaned about maintenance and operations of Air Insulated Switchgears that includes the protection equipment like Lightening Arrestors, Surge Arrestors, Isolators, CB's and Transmission Line
- Daily weekly maintenance reports preparing for Manager O&M.
- Leading daily maintenance work activities at the 20MW solar power plant.
- Scheduled maintenance of 8x2500KVA Transformers and
- 8x630A 6.3KV ABB switch gears at solar plant grid station.
- Monitoring of relocation of overhead 11kv line, poles erection, conductor laying and stringing.
- Conducted short circuit study for the plant for new incomer WHR7.5MW line.
- Operation and maintenance of various protection devices such a lightening arrestor, isolators, capacitor banks, voltage transformers, current transformers, On load tap changers. Be in line with the national grid operator regarding schedule shutdowns.
- Keeping record of the daily energy usage per department like crusher, quarry, packing plant, production etc.
- Co-ordination with different departments during emergencies.

TRAINEE ENGINEER | GENERAL ELECTRIC-United States

OCT 2021 - FEB 2022

RESPONSIVITIES/ACCOMPLISHMENTS

- Calculation of Electrical Load, Analyzing and Inspection of On Shore and Offshore Wind Turbines up to 400MW
- Learned and completed a case study for the potential of renewable energies (Hydel Power, Solar, Wind, Nuclear and Gas) for middle east and South Asia
- Healthcare Sector Ventilator Production, Demand forecasting for Energy requirement in case of Future Pandemics and Ventilators Production
- Learned about Aviation, ILS System and coordination with particulars sensors, block diagram of functionality and SLD for operations
- Planning and effective preventive maintenance schedules of
- Various machineries and instruments to increase machine up time and equipment reliability.
- Troubleshooting of the fault using engineering logic and testing.
- Routine inspections and monitoring of working equipment's.
- Preparing R&D based data to check the performance of motors, generators and transformers.
- DB details, Cable Ampacity, type of cable and it's selection like XLPE, PVC/PVC, AWG; cable pulling and laying with needed equipment
- Operation and maintenance of various protection devices such a lightening arrestor, isolators, capacitor banks, voltage transformers, current transformers, on load tap changers.
- Learned about Making RFQ's and Supply Chain Management for the Project and Leading site surveys along with sub-contractors.

CHAIRPERSON | Society of Electrical and Electronics Engineers (SEEE)

2020-2021

- Organized Continuing Professional Development (CPD) workshops
- Provided recommendations on board of directors on group's effectiveness, actions and future plans.
- Chaired student and faculty meetings, disseminating information and fielded questions.
- Facilitated decision making by building consensus and developing solutions.
- Developed innovative sales and marketing strategies to facilitate business expansion.
- Drove performance initiatives, facilitating 120% revenue increase in sponsorship and investment
- Oversaw daily administrative operations, including documentation, liaison and procurement of material
- Signed Annual internship and sponsorship agreement between industries and SEEE vis-a-vis signed MOU's regarding fulfilling KPI and CPIs for different industries especially Faisalabad Chamber of Commerce (FCCI)

EVENT MANAGER | Society of Electrical and Electronics Engineers (SEEE)

2018-2019

- Senior management coordination with industry and responsible for Procurement, Inventory and Management
- Planning Event including procurement, solicitation and maintaining records vis-à-vis budgeting
- Event managers plan and organize promotional, business and social events
- Management Information System

FOCAL PERSON | Society of Electrical and Electronics Engineers (SEEE)

2017-2018

- Responsible for having deals with organizations, universities and Guest speakers
- Responsible for making negotiation with event sponsorship partners
- Representation of Organization on different platforms

UpWork/Fiver Consultant and Technical Service Provider | **Society of Electrical and Electronics Engineers (SEEE)** 2017-2021

 Wrote and edited high-quality content and visually impactful programs under deadline pressure with exciting, captivating and authentic approach.

- Presented new technology and drafted white papers and other technical documents to complete packages.
- Prepared a variety of different written communications, reports and documents to ensure smooth operations.
- Providing services for Machine Learning and Programming related skills
- Working as professional data scientist with expertise in deep learning projects



ACTIVITIES

Given my particulars and Interest in the field of SOFTWARES and new technologies I managed to crack all below mentioned Courses and Earned badge.

Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep

https://drive.google.com/file/d/1zuEHmuI5ZE3YLPKZKfhjmMPKnQdbmbDr/view?usp=sharing

Industrial Internet of Things (IOT) on Google Cloud Platform(GCP)

https://drive.google.com/file/d/17aBnnV6tMoQ4R_VvebvaMwmrb2LIASx2/view?usp=sharing

Renewable Energy Systems Modelling and Simulation

https://drive.google.com/file/d/1hirO9qkojdy5-5UihNPeO6Bs_ipbB8B6/view?usp=sharing

Convolutional Neural Networks in TensorFlow

https://coursera.org/share/e778bb756b934576dcc9b72d7e03c32b

Creating Multi Task Models With Keras

https://coursera.org/share/f6e402ec64c7f50c9558e94ac94d22db

AWS Cloud Technical Essentials

https://www.coursera.org/learn/aws-cloud-technical-essentials/home/welcome

Build Image Quality Inspection using AWS Lookout for Vision

https://coursera.org/share/ca1bc0d46cd911fbfadc46a5dd90e40a

Create a Virtual Private Cloud (VPC) Using AWS

https://coursera.org/share/59817188181cfa59700f7f78881310bd

Build a Business Architecture using AWS Organization

https://coursera.org/share/6f8a8aef559ffe3e41e0b49d245cecd8

Getting Started with ProfitBooks

https://coursera.org/share/43525b05a7a220e74c1580c175e63888

Build your first Search Engine using AWS Kendra

https://coursera.org/share/9c89688e7bcdcaa5d59706f7c5b3af05

Set up AWS Billing Alerts using AWS Budgets

https://coursera.org/share/77d690912b2b2d3d4ae99248f168e22e

Access an EC2 instance shell from the AWS console

https://coursera.org/share/97e898853a7420184e3d7a9e700905ca

Getting Started with AWS Machine Learning

https://coursera.org/share/6641b48751a7c5480e11680883f95557

Launch an auto-scaling AWS EC2 virtual machine

https://coursera.org/share/c1cd47035e1f0af9429f4a99d3fcc2a7

Machine Vision for Industrial Application

https://drive.google.com/file/d/1rfkE1-tuk9jmBPeW9e4FBJvTTktP5_iL/view?usp=sharing

Image Denoising Using Auto Encoders in Keras and Python

https://coursera.org/share/2b5b0a77d70cf0546bb2a91885740fee



RESEARCH PAPER

Design and implementation of autonomous waterless photovoltaic panel cleaning system using Embedded deep learning computer vision-based approach



Pakistan Engineering Council (PEC) PAKISTAN'S MOST ESTEEM ORGANISATION FOR ENGINEERS RECOGNISTION

X

SOFTWARE EXPERTISE

- Sketchup
- PVSyst
- SIMULINK
- Etap
- REVIT
- Gaswork

- Power World Simulator
- AutoCAD
- MATLAB
- HELIOSCOPE
- WINDEBUT