MUHAMMAD REHAN ABBASI

Rawalpindi, Pakistan   +92 345 5231428   rehan32@ee.ceme.edu.pk

https://linkedin.com/in/muhammadrehanabbasi   https://github.com/mrehanabbasi

PROFESSIONAL SUMMARY

Motivated Electrical Engineer with about 2 years of experience in IT and about 4 years of experience in power sector. I also have experience of project management having undertaken execution of many diesel generator installations. Also, have experience in web and OpenAPI Specifications development.

EDUCATION

Institution	Program	Program Type	Year Completed
NUST College of Electrical and Mechanical Engineering, Rawalpindi	Bachelors in Electrical Engineering	Degree	2014
Dice Analytics	DevOps with Github, Jenkins, Docker Containers, Kubernetes and Ansible	Course	2021

TECHNICAL SKILLS

- Designing of MERN stack applications keeping in view the micro-service architecture.
- Containerization and deployment of MERN stack applications using **Docker**, **Jenkins** and **Kubernetes** via best DevOps practices.
- Automation of deployment of *Docker* images to *Docker Hub* from a GitHub repository using GitHub Actions.
- Preparing CI/CD pipelines using *Jenkins* and **Github Actions**.
- Implementing and developing APIs using **golang** and **OpenAPI Specifications**.
- Creating automation scrips using **Python** and **Bash**.
- Developing OpenAPI Specifications for APIs from a list of requirements.
- Deployment of applications on local Minikube Kubernetes cluster.
- Managing existing Kubernetes cluster in production environment for a live website.
- Deploying AWS infrastructure like VPC, ALB, RDS, EC2 etc. using **Terraform**.

xFlow Research (Pvt.) Ltd.
Network Design Engineer II
Aug 2021 to Present

- Part of the 'Research & Standardization' team at xFlow Research, Inc.
- Working closely with the oneM2M task force on functional testing of oneM2M functional architecture and entities by providing support in:
  o Development of test purposes for oneM2M Conformance test suite for Common Service Layer.
  o Maintenance and updating of existing test purposes.
- Working closely with the European Telecommunication Standards Institute (ETSI) on conformance and interoperability testing for NFV and oneM2M standards.
- Creating a test suite for conformance testing of ETSI NFV standards in Robot Framework.
- Actively researching emerging use-cases in the SDN, NFV, 5G and IoT domains.
- Part of MEC STF tasked with development of OpenAPI and Protocol Buffer descriptions for MEC APIs.
- Active in development of web based emulator for NFV Lifecycle Management API including modification in Swagger UI code written with React.
  o Developing APIs and HTTP REST method handlers in Flask.
  o Reading from and storing JSON data in MongoDB.
- Implementing new backend APIs and upgradation of the existing ones in existing MEC Sandbox (https://try-mec.etsi.org) environment as defined by ETSI MEC specifications using **Golang**.
  o Storing and retrieving data to and from Redis and PostGIS/Postgres databases.
  o Implementing HTTP REST methods and their handler functions as per specifications provided in Golang.
  o Creating separate microservices for each API and deploying them using Kubernetes and Helm.

Orient Rental Modaraba
Site Manager
Sep 2020 to Jun 2021

- Supervising all operation and maintenance activities of mechanical machinery at Pakistan Tobacco Company, Akora Khattak Factory.
- Managing all technical staff including site engineer, foremen etc. for smooth operation of plant.
- Prepare proper documentation as per PTC standards.
- Ensuring speedy resolution in case of any breakdown during production.
- Supporting PTC in passing of IWS Step 4 audit.

Orient Energy Systems (Private) Limited
Assistant Manager Project Application
Feb 2020 to Sep 2020

- Preparing Technical Proposals according to the specifications mentioned in customer inquiry for Cummins Diesel Generator Sets (ranging from 20kVA to 3750kVA).
- Preparing detailed Financial / Commercial Proposals including detailed Budgeting and Costing of all projects after consultation with the sales team.
- Preparation of Project Implementation Plan (PIP) for major projects.
- Leading a team of installation engineers and assigning their duties on daily basis, regular monitoring and evaluation of their performances and onward reporting to regional manager.

Orient Energy Systems (Private) Limited
Application and Installation Engineer
Oct 2016 to Feb 2020

- Preparing Technical Proposals according to the specifications mentioned in customer inquiry for Cummins Diesel Generator Sets.
- Preparing detailed Financial / Commercial Proposals including detailed Budgeting and Costing of all projects after consultation with the sales team.
- Conducting detailed site surveys for generator set sizing and providing recommendations as per Cummins guidelines.
- Management of installation for all in-hand projects in entire North Pakistan.
- Preparation of Project Implementation Plan (PIP) for major projects.
- Supervising of projects on daily basis according to the PIP provided as to achieve timely project delivery.

Frontier Works Organization
Trainee Engineer (Electrical)
Jan 2015 to Oct 2016

- Installation, monitoring and troubleshooting of Intelligent Transportation System (ITS) on Motorway M2.
- Managing of all IT equipment for smooth data flow from toll plazas to FWO HQ and vice versa.
- In-charge of Bhera Control Room.
- Managing of resources for smooth operation of multiple motorway interchanges.

REFERENCES

Hammad Zafar
Technical Lead
xFlow Research Pvt. Ltd.
+92 333 6642168

Muhammad Ali
Regional Sales Manager
Orient Energy Systems Pvt. Ltd.
+92 333 5554362

Muhammad Ali Khalid
Assistant General Manager
Orient Energy Systems Pvt. Ltd.
+92 300 0201727