

AKHIL BHARATH M R

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PROFESSIONAL SUMMARY

Analytical Electrical Engineer with in-depth knowledge in project engineering, industry standard process design and commissioning methods. Analytical problem solver with theoretical and practical experiences in the creation of innovative technology processes which improve performances and efficiencies. Advanced programming skills in different platforms (for IT & OT), statistical process analysis with the ability to synthesize the data for design and testing of systems and commissioning and troubleshooting skills obtained through cooperative work experience in EHV, HV and LV systems. Seeking an opportunity to use advanced techniques and technical modification in control systems.

CORE COMPETENCIES

Electrical Skills:

Design Consultation, Program and Commissioning of Industrial Automation Systems(HV&LV)

- 66kV Substation operation and maintenance of Power Transformers, Current Transformers, Potential transformers, SF6 and Vacuum Circuit Breakers, Relays and protection
- Control panel wiring, troubleshooting, operation & maintenance of EHV, HV & LV Electrical Panels
- PLC(Programmable Logic Controllers) – Schneider Electric(Zelio soft), Siemens(LOGO, SIMATIC S7-1200), ABB, AB(Micrologix, SLC 500), Delta(DVP 20EX2), GE Fanuc, Mitsubishi, Omron
- Variable Frequency Drives
 - ABB ACH & ACS series drives – ACS 310, ACH 480, 550, 580(Authorized tech support)
 - Schneider Electric Altivar series drives – Altivar 212, 312, 61, 71
 - Danfoss VLT series drives – VLT 6000(Inactive), FC 102, FC 202
 - Siemens SINAMICS V20, G120C drives, Micromaster440
- HMI(Human Machine Interface) – Siemens(SIMATIC HMI KTP1200 Basic 12), Delta (DOP Series)
- PID Control for Industrial Control Systems
- SCADA(Supervisory Control And Data Acquisition) – Wonderware(In touch v9.5), Siemens(Win CC)
- DCS(Distributed Control System) – ABB AC 800F
- Electrical Panel Designing and Costing, Field Instrumentation & Electrical Systems
- Modeling Software – AUTOCAD

Mechanical Skills:

Pump/Motor Design & Application Consulting for general Industrial applications, Domestic and Commercial applications, Sewage Applications, HVAC-AHU's, Fans, Chilled Water pumps, Heaters, Pressurization units etc.

- Pumps – Wilo, DP pumps(Authorized dealers and tech support), Armstrong, Sulzer, Grundfos , ABS - Technical support
- Design, Application, Selection, Technical support and Commissioning of Pumps (Domestic, Industrial, HVAC)

Technical Skills:

- Artificial Intelligence – Numpy and Pandas
- Machine Learning - MNIST
- Programming Languages– Python(Anaconda & IDLE), R TOOL, SAS, C, C++, Basics of JAVA
- Operating systems Platform - Windows XP, 7, 8, 8.1, 10, Linux
- Computer proficiency– Microsoft Office (Microsoft Word, Excel, PowerPoint), Adobe Photoshop

PROFESSIONAL EXPERIENCE

Present Company Profile (March 2020 to Present)

Graduate Electrical Engineer Trainee at Kerala State Electricity Board (KSEB), 66kV Palakkad Medical College Substation, Palakkad, Kerala, India

- Experience with the operation and maintenance of Power Transformers, Current Transformers, Potential transformers, SF6 and Vacuum Circuit Breakers, Relays and protection.
- Experience in Control Panel Wiring of EHV, HV and LV Electrical Panels.
- Experience in trouble shooting of Electrical control circuit.
- Attending daily operation, maintenance, testing and expansion works of station.
- Assisting and managing the operation and contingency break down maintenance of 66kV substation.
- Monitoring overall work progress and reporting to the station engineer.

Previous Company Profile (July 2016 to December 2019)

Control Systems Engineer | Application Engineer/Consultant at Maysaloon Engineering Company, Qatar.

-In Sales & Estimation

- Submitting techno-commercial offer for Automation projects to the end user with cost effective solutions and designs as per the client requirement.
- Responsible for general Industrial and Commercial projects with Clients, Main & Sub Contractors.
- Comprehensive knowledge of mechanical engineering and pump application engineering concepts

-Design Responsibilities

- Coordination with multiple project discipline's for the submission of technical submittal comprising of adoption of IEC Standards, QCS and Project compliance statements, I/O points schedule, system /network architecture, bill of materials, control schematics and wiring diagrams, Pump flow and head calculation.
- Offered technical guidance on regulatory applications and strategy implementation
- Coordination of technical front with stake holders
- In-depth knowledge of Hydro process, Hydro's pump-specific engineering process, and development processes

-In Project Engineering

- Engineering & Consulting, Control Design, Product Integration, Testing & Commissioning of PLC, VFD & HMI systems, MCC panels.
- Advised on design, planning and implementation of projects
- Hand on experience in ABB ACH 310,480,550,580 series VFDs and LV electrical components, Schneider Electric Altivar 212, 312, 61, 71 series VFDs, Zelio Soft PLCs and LV electrical components, Danfoss VLT 6000 series, FC 101, 202 series, Siemens LOGO, S7 1200 PLC and Siemens V20, G120C VFDs, Sulzer pump automation module etc.
- Engineering and hand on experience with programming of controllers, VFDs, HMI/SCADA graphics development and third party system integration over different communication protocols like BACnet, MODBUS, BMS & BACS.
- Factory Assembled Pump set (Wilo, Grundfos, Armstrong, Sulzer) selection, technical guidance, consultation, programming and commissioning.

Previous Company Profile (October 2015 to June 2016)

CRO (Customer Relations Officer-Platinum Service) at Hinduja Global Solutions Pvt Ltd, Bangalore, India.

- Dealing with Platinum class customers inside India and Overseas.
- Identify customers' needs, clarify information, research every issue and provide solutions and/or alternatives
- Manage large amounts of inbound and outbound calls in a timely manner
- Works to consistently meet all established goals and metrics

EDUCATION

- Post Graduate Diploma in Industrial Automation-PGDIA (2016) from ISO-IAO and NSDC certified

M/s. Prolific Systems and Technologies Pvt. Ltd.

- Bachelors of Engineering in Electrical & Electronic Engineering (2010-2014), From RVS College of Engineering & Technology, Coimbatore, Under ANNA University(Chennai)
- Higher Secondary Education (HSC) (2008 - 2010), From Central Board of Secondary Education (CBSE), Vyasa Vidya Peethom, Kerala.
- Secondary School Certification (2008), From Central Board of Secondary Education (CBSE), Vyasa Vidya Peethom, Kerala.

CERTIFICATIONS AND ACHIEVEMENTS

- Completed “Cyber Security Practices for Industrial Control Systems” training from US Department of Homeland Security's Industrial Control Systems Cyber Emergency Response Team (DHS ICS-CERT)
- Completed training on “Artificial Intelligence” and “Internet of Things (IoT)” under MyCaptain, an IIM Bangalore and a United Nations SDSN recognized program.
- Attended certified training on “ABB ACH550 LV Drives Commissioning & BACnet communication” conducted by ABB in Qatar
- Completed the Certificate training course on “BUSINESS ANALYTICS using R & SAS” held at RVS College of Engineering and Technology under RVS Analytics, A Division of RVS IMSR.
- Attended seminar on “Water and Waste Water seminar focusing on variable frequency drives- ABB”, “ABB’s new generation Low Voltage drives “, “ Schneider Electric’s Low Voltage drives “ directly from the manufacturers like Wilo, ABB, Siemens
- Attended a workshop on the topic “Renewable Energy Resources” held at RVS College of Engineering and Technology on 16th march 2012.
- Attended a workshop on the topic “Introduction to automation system & its control Devices” held at RVS College of Engineering and Technology.
- Participated in a seminar on the topic “EMBEDDED SYSTEM” in RVS College of Engineering and Technology on 29th july 2011.
- Survey/Project done on “META-ANALYSIS ON HYPERTENSION AND ITS RELATIVE OUTCOMES” using t-test, f-test and p-value test in R Tool Software and SAS software for Big Data Analytics.
- Certified for the assessment for the role of Trainee Associate in the National Skill Qualifications Framework Level-3

PROJECTS

Engineering & Control Design of Pumps and Control panels, Program Integration, Testing and Commissioning of MCC Panels, Variable Frequency Drives (VFD), PLC, HMI (Automation Panels)

- Qatar Rail – Redline Metro, Green line Metro
- Qatar Foundation
- Qatar Petroleum
- Qatar National Museum
- Al Bidda Park, a Govt Project
- Musheireb Downtown Doha
- Mall of Qatar
- Viva Bahariya precinct, Pearl Qatar
- Abraj Quartier, The Pearl Gateway Towers
- FIFA training grounds and Stadiums(Al Rayyan, Al Thumama)
- Doha Oasis
- RO Plants in various urban& coastal areas
- Various Luxurious Hotel chain projects
- Various small & medium automation projects

DECLARATION

I hereby declare that the above-mentioned details are true and correct to the best of my knowledge and belief

(AKHIL BHARATH M R)