# ABDUL HAKKEEM

**SYSTEM ENGINEER (ELECTRICAL)**

**CHENNAI, TAMILNADU**

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**PROFESSIONAL PROFILE:**

* Six+ years diversified experienced Power System Engineer with working history in various Power Systems of Oil and Gas Refinery, Petrochemical Plants and Power generation and Distribution service providing industries.
* Professional with a Bachelor of Technology (B. Tech) focused on Electrical and Electronics Engineering from SRM University.

**SUMMARY OF WORK:**

* Engineering of Substation Control & Protection Systems.
* Perform technical study (ETAP Power System Study, Relay Settings and Calculations,  
  Expansion of electrical system and obsolescence management)
* Knowledge of Medium Voltage switchgear, protection system requirement, fundamentals of CTs, Motor, Generators.
* Preparing manufacturing documents.
* Preparation of functional descriptions/specifications.
* Preparation of Conceptual Design Drawings/Documents, Equipment/Relay & Metering One-Line Drawings, Equipment Interface Drawings, Cable Interconnection Schedules and Automatic Bus Transfer Scheme.
* Review and Co-Ordination of drawing from various equipment suppliers i.e. Control/substation automation & protection system, switchgear transformer, CT, Alarm system, SCADA system, ACDB, DCDB & battery charger to meet specification and functional requirement.

**CURRENT EMPLOYER:**

**QCOMP THAMIRA ENGINEERING SERVICES, CHENNAI**

Designation **: System Engineer (Electrical)**

Period **:** From 16-July 2014 to till date

**RESPONSIBILITY:**

* I am “Checked By” authority for design documents prepared by subordinates and “Prepared By” authority for design documents prepared by myself.
* Ownership of the projects. Plan and organize the work within the project design team.
* Act as technical interface with customer and other design teams.
* As Technical lead of the project I will be responsible for timely completion of design with Correctness and quality of engineering deliverables of the project. Takes lead in solving the design issues with other suppliers, clients, etc. during execution of the project.
* Responsible for complete design coordination, BOQ to be ordered, design support to manufacturing, design support to Testing & Commissioning.
* Ensures the optimization of the electrical design in terms of cost and customer requests, in accordance with Client technical standards and with material cost estimated at quotation stage.
* Prepares conceptual design, Application design e.g. PSLD, CT/VT calculations, Relay settings and calculation etc.
* Discuss and explain with the customer on technical solutions in order to have a good relationship with the customer and to have a clear picture of all job details.
* Establish and maintain a design library of standard solutions.
* Living in core values of safety and integrity, which means taking responsibility for my own actions while caring for my colleagues and the business.

**ACCOMPLISHMENT:**

1. **REPLACEMENT OF OVERCURRENT AND EARTH FAULT RELAY**. In Riyadh and Al Kharj area in Kingdom of Saudi Arabia

**Customer**: Saudi Electricity Company with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work:**

* Preparing Detail Engineering design for Replacing Old RACID Relay to New ABB make REF615 Relay.
* Preparation of relay setting calculation.
* Preparation of CT adequacy calculation

1. **SWITCHGEAR & TELEMETRY SYSTEM UPGRADE**. In SWCC Pumping station at Jubail Industrial area in Kingdom of Saudi Arabia.

**Customer**: Saudi Petrochemical Company (SABIC-SADAF) with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work**:

* Preparing Detail Engineering design for Replacing Old Switchgear and SCADA Equipment.
* Preparation of setting calculation for motor protection in GE multilin relay.
* Preparation of Cable Schedule.
* Preparation of Etap Based Short Circuit and Arc Flash Analysis

1. **SHORT CIRCUIT ANALYSIS &** **PROTECTIVE RELAY COORDINATION STUDY** for KING FAHAD INDUSTRIAL PORT at Jubail in Kingdom of Saudi Arabia.

**Customer**: Royal Commission for Jubail and Yanbu with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work:**

* Preparation of Etap Based Short Circuit and Protective relay coordination study.

1. **SHORT CIRCUIT ANALYSIS & PROTECTIVE RELAY COORDINATION STUDY** for Combined Medina and Yanbu power and desalination plant at Yanbu in Kingdom of Saudi Arabia.

**Customer**: Saline Water Conversion Corporation with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work:**

* Preparation of Etap Based Short Circuit and Protective relay coordination study.

1. **REFINERY SUBSTATION UPGRADE - PHASE I (STAGE-2)** for PETRO RABIGH COMPLEX at RABIGH in Kingdom of Saudi Arabia.

**Customer:** PETRO RABIGH COMPLEX (SAUDI ARAMCO) with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work:**

* Preparation of Etap Based Short Circuit, Load flow Analysis, Protective relay coordination study and Arc Flash Analysis.

1. **Power System Protection Upgrade in SAFCO-2, 3 & 4.** for Saudi Arabia Fertilizer Company (SAFCO) / SABIC. in Kingdom of Saudi Arabia.

**Customer:** Saudi Arabia Fertilizer Company (SAFCO) / SABIC. with ABB Contracting Company Ltd, Kingdom of Saudi Arabia.

**Scope of Work:**

* System & Protection Engineering, Preparation of Relay Settings &

CT/VT Adequacy calculations.

1. **220/132/33kV SUBSTATION, AT BADHAIKALAN, MUZAFFARNAGAR Control and Protection Upgrade** for UPPTCL in Uttar Pradesh, India.

**Customer:** Uttar Pradesh Power Corporation Limited. with ZIV Automation India.

**Scope of Work:**

* Preparing Detail Engineering design for Control & Protection Panels for 220/132/33Kv Substation using E3.

**PREVIOUS EMPLOYER:**

**SWITCHGEAR INTERNATIONAL WLL, DOHA**

Designation **: QA/QC ASSISTANT**

Period **:** From 12-January 2014 to 15 April 2014.

**EDUCATIONAL PROFILE:**

**SRM UNIVERSITY, CHENNAI**

B. TECH (part time) in Electrical and Electronics (CGPA 6.5)

(August 2015‐December 2018)

**CHANDY** **POLYTECHNIC COLLEGE, TUTICORIN, TAMILNADU**

Diploma in Electrical and Electronics Engineering (79%)

(JULY 2010‐APRIL 2013)

**SOFTWARE SKILLS:**

* **ETAP** for Power System Studies (SHORT CIRCUIT, LOAD FLOW, PROTECTION RELAY CORDINATION, ARC FLASH, HARMONIC ANALYSIS).
* **E3, AutoCAD, Micro station Power draft V8i** and **IRS-B** for electrical drafting.
* Proficient in **MS Office.**

**KEYSKILLS:**

Ownership of the projects. Plan and organize the work within the project design team.

**DECLARATION:**

I hereby confirm that the information given above is true to the best of my knowledge and ethics.

Thank you,

**Place: CHENNAI Yours’s Truly**

**Date: Abdul Hakkeem.S**