**Suhel Gupta**

Electrical Reliability and Power Electronics Engineer

B.Tech (Electrical Engineering), NIT Kurukshetra

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* Implementation of proposals, project execution, preparing project charter, identifying scope & deliverables for management and commissioning of new drive systems (AC & DC) at critical utilities at site.
* Feasibility study for implementation of drive solutions at site in production critical utilities in fans, pumps, conveyers, compressors and extruders.
* Facilitating plant and factory automation via drive interfacing with PLC/DCS/SCADA using Profibus, RS485, Ethernet and USS.
* Commissioning of Siemens 6RA80 DC drive system and replacing the obsolete 6RA70 DC drive system in a production utility in an LDPE plant.
* Commissioning of Siemens S120 AC drive system and replacing the obsolete 6RA21 DC drive system in a production utility in polymer plant.
* Conducting RCA, RCM, FMEA and performing ACA studies on AC and DC UPS systems, LV and MV VSDs and Generator AVRs.
* Commissioning and online load transferring of 2\*20 kVA UPS in a petrochemical critical utility using self devised scheme of an external static switch.
* Imparting training to maintenance crew on operation and maintenance of power electronic assets like UPS, VSD, AVR & Battery sets.

***Reliance Industries Limited – Senior Manager Power Electronics & Reliability***

*04/2018 - Current*

**WORK HISTORY**

* **Published a technical paper** in the **IEEE** **international conference of Power Electronic drives and Energy Systems** at IIT Madras in December 2018 on the subject **"Field Experience on Effect of Power Electronic Component Failure in Excitation Circuit of a 5 MW Synchronous Motor"**
* Selected of the **RIL flagship leadership program Step-Up** in 2021.

**ACCOMPLISHMENTS**

***Reliance Industries Limited - Manager Power Electronics & Reliability***

*07/2013 - 04/2018*

*07/2013 - 04/2018*

* Commissioning of Digital ABB AVR Unitrol 6080 in 12.5 MW steam turbine generator.
* Commissioning of 1 MVA ABB ACS2000 MV drive in petrochemical rubber plant.
* Managed testing Numerical and electro-mechanical protection system relay and instrument transformer testing in-house; & Power Electronics repairing laboratory leading to an yearly cost saving of INR 18 lacs
* Technical assistance to maintenance team for operations and troubleshooting faults in electrical and power electronic systems
* Commissioning of 2\*80 kVA AC UPS system in data center at site.

**CONTACTS**

**2008-2012**

**National Institute of Technology (NIT), Kurukshetra**

**Bachelor of Technology:**

**Electrical Engineering**

**EDUCATION**

Focused Electrical Engineer with background in power electronics, power systems, automation and controls. In-depth understanding of control and power-delivery systems. Experienced in developing technical studies and investigations with over 9 years of work experience in reliability and maintenance of critical power electronic and electrical assets in petrochemical complexes.

**CAREER OBJECTIVE**

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Suhel91@gmail.com

(+91) 9725775062

334, sector-55, Faridabad, Haryana

* Administration and maintenance of Electrical assets like power and distribution transformers, LT & HT motors, DG sets, HVAC, LT & HT panels and switchgear for improved reliability
* Inventory and spares management for routine & turnaround maintenance
* Delivering maintenance KPIs and ensuring AOP targets

***Reliance Industries Limited – Graduate Engineer Trainee***

*07/2012 - 06/2013*

* Represented the school wining team at National level in the All India Mahatma Hansraj Tournament HHfor cricket in 2007.
* Member of the Indian Society for Technical Education, at NIT Kurukshetra from 2010-2011.

**Other Facts:**

**PERSONAL DETAILS**

* Date of birth: 19th January 1991
* Work Experience: 9 years and 4 months
* Marital Status: Married
* Nationality: India
* Languages known: English, Hindi
* Passport Available: Yes
* Notice Period: 90 days (Negotiable)

**DECLARATION**

*I hereby declare that all the details mentioned above are in accordance with the truth and fact as per my knowledge and I hold the responsibility for the correctness of the above-mentioned particulars*

***Suhel Gupta***

**RELEVANT SKILLS**

* Power Electronics Engineering
* Reliability & Maintenance Engineering
* Work Planning and Prioritization
* Asset Performance Management CMMS
* Complex Problem Solving
* Power System Problem Identification
* Budget Management
* Electrical Systems Design & Integration
* PM PdM Optimization
* Troubleshooting & Maintenance
* Variable Speed Drives, Batteries & UPS
* Project Management
* Transformers – From 600KVA to 30 MVA, 33KV/6.6 KV, 6.6KV/.433KV Etc. (ABB, Voltamp, Schneider, Siemens, BHEL). Right from erection, commissioning to Preventive Maintenance and Testing.
* AC UPS – 0.5KVA to 200KVA, Standalone, Parallel, Dual Redundant (GUTOR, Vertiv, HIREL, TATA Liebert)
* DC UPS – 5A to 200A, Thyristor based, Modular, FC, FCBC (Masstech, AEG, HBL, Nife etc.).
* VFD / VSD – 0.37KW to 16MW, LV Drive, MV Drive, (ABB ACS150-550-800, Allen Bradelly Powerflex 40 & T1336+, Siemens S120-MDVC-MIcromaster- 6RA70 – 6RA80, Vacon NXP, Emotron FDU, Lenze)
* Batteries – NiCd, VRLA, SMF of HBL, Amararaja, Exide
* Simulation Softwares: MATLAB, LTSpice, PSIM, ETAP
* Enterprise Softwares: Meridium API, SAP
* Technical Softwares: DriveMonitor, Powersuite, NC Drive, Siemens Starter

**DETAILS OF SYSTEM and SOFTWARES WORKED ON (HANDS ON)**

**CERTIFICATIONS**

* Technical Paper presentation in **IEEE** international conference of power electronic drives and energy systems.
* “**Advanced Power Electronics on MV drive topologies and motor control scheme**” at **IIT Bombay**; Apr, 2017-Mar, 2018.
* Operation and troubleshooting of Chloride Apodys UPS systems at Vertiv, Pune.
* Siemens ‘DIGSI software advanced training’ & Siemens ‘Drives: Sinamics-120 and Master Drive Vector Control’.
* Vocational Training undertaken at POWERGRID CORPORATION OF INDIA LIMITED, New Delhi in June-July, 2010
* Vocational Training undertaken at NTPC-Faridabad, Faridabad (Haryana) in June-July, 2011.
* Completion of graduation Major Project in “ARTIFICIAL NEURAL NETWORK CONTROL OF VOLTAGE SOURCE INVERTERS” in 2012 at NIT Kurukshetra.