

P.Eng Jahangir Alam

SENIOR ELECTRICAL ENGINEER - ALTRAN POWER SOLUTION

Bordentown, NJ - Email me on Indeed: [indeed.com/r/P-Eng-Jahangir-Alam/3053b6b93d4d02cc](https://www.indeed.com/r/P-Eng-Jahangir-Alam/3053b6b93d4d02cc)

- Experienced on Substation preliminary electrical design through to detailed electrical design.
- Experienced on Single line diagram, Panel layout, wiring diagrams, DC schematic, AC schematic and elementary diagram for protection and control systems.
- Skilled on short circuit calculation and load flow analysis, Voltage drop calculation and equipment sizing.
- Experienced on relay settings, calculation and co-ordination for protection schemes.
- Experienced on lightning design, Yard lighting, grounding system design, DC battery and Charger sizing.
- Experienced on ETAP, SKM, ASPEN, WINIGS, ANSI, IEEE, CEC, NEC, NESC, IEC, CSA, NFPA
- Experienced on Physical layout, General arrangement, plan view section, grounding details, Conduit plan, cable list, Cable trench layout of substation.
- Ability to read and interpret power system drawings and specifications, conceptual design review, worked with a team of professionals and liaise with vendors and contractors.
- Highly developed interpersonal, communication and organizational skills

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

SENIOR ELECTRICAL ENGINEER

ALTRAN POWER SOLUTION - Bordentown, NJ - June 2015 to Present

- Responsible for the preliminary engineering and detail design of HV and EHV stations
- Prepared Single-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Develop and review technical specifications, drawings and standards of equipment/ projects up to 500 kV, including Single Line diagrams, DC Logics, schematics and wiring.
- Provide Protective schemes with microprocessor protective relays for high voltage lines, remote trips, Breaker failure protection, transformer protection and bus protection
- Responsible for designing Low voltage, Medium voltage and High voltage switchgear.

ELECTRICAL ENGINEER

VISTA PROJECTS LIMITED - Calgary, AB - July 2013 to May 2015

Provided Protective schemes with SEL and GE microprocessor protective relays for high voltage lines, remote trips, Breaker failure protection, transformer protection, bus protection

- Prepared data sheet, One-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Provided AC /DC load calculation and CT evaluation

ELECTRICAL ENGINEER

EQUINOX ENGINEERING LIMITED - Calgary, AB - April 2012 to June 2013

Provided short circuit calculation, Load flow analysis, Voltage drop, equipment selection and sizing.

- Prepared Single-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Carried out relay setting calculations, relay coordination, relay settings with several protection schemes of high voltage substations
- Experienced on AC /DC load calculation and CT saturation calculation.
- Prepared Bid documents and evaluate technical bid documents for electrical Equipment.

SUBSTATION PROTECTION AND CONTROL ENGINEER

SAIC - Wayne, PA - October 2010 to March 2012

Provided Protective schemes with SEL and GE microprocessor protective relays for high voltage lines, remote trips, Breaker failure protection, transformer protection, bus protection

- Prepared data sheet, One-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Provided AC /DC load calculation and CT evaluation
- Provided lightning design, Yard lighting design and grounding system design

SUBSTATION PROTECTION AND CONTROL ENGINEER

MSE POWER SYSTEMS, INC - Casa Grande, AZ - June 2008 to September 2010

Provided short circuit calculation, Load flow analysis, Voltage drop, equipment selection and sizing.

- Single-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Carried out relay setting calculations, relay coordination, relay settings with several protection schemes of high voltage substations
- Experienced on AC /DC load calculation and CT saturation calculation.
- Experienced on lightning design, Yard lighting design and grounding system design
- Provided Protective schemes with SEL and GE microprocessor protective relays for high voltage lines, remote trips, breaker failure protection, transformer protection, bus protection

ELECTRICAL TECHNOLOGIST

VORTEX AQUATIC STRUCTURE INT'L INC - Montréal, QC - October 2005 to May 2008

Prepared engineering designs and drawings, estimated material cost and examined drawings for conformity and error for voltage controller diagram, motor starter, and control systems.

- Assisted in development of Industrial Automation systems and installation, repair & maintenance voltage controller, motor starter, capacitive sensor, solenoid valve.

ELECTRICAL ENGINEER

POWER DEVELOPMENT BOARD - Dhaka - May 1995 to February 2002

Provided short circuit calculation, Load flow analysis, Voltage drop, equipment selection and sizing.

- Single-line and three-line diagrams, DC schematics, panel layouts, interconnection diagrams, control and schematic wiring diagrams, Bill of materials (BOM) and other relevant engineering drawings and documents
- Prepared scope of work, bills of material and reports of the project

EDUCATION

design

Concordia University - Montréal, QC

2006

Master of Electrical Engineering in Electrical Engineering

Concordia University Montreal

2005

Bachelor of Science in Electrical

Bangladesh University of Engineering and Technology

1994