

Juan A. Johnson
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SUMMARY

Juan Johnson is a detailed-oriented Construction Inspector with a strong background in Electrical design and construction services. He is highly proficient in all MS Office software (Word, Excel, and PowerPoint), Autodesk Revit and AutoCAD, with excellent communication and written skills.

EXPERIENCE

Traction Power Design Engineer/Construction Inspector
Washington Metropolitan Transit Authority

June 2011 – Present
Washington D.C.

Traction Power Design Engineer:

Lead Traction Power Design Engineer responsible for day-to-day management of the design of DC Traction Power Substations for Washington Metropolitan Area Transit Authority (Washington Metro):

- Responsible for oversight of a \$20 million design project of upgrading 50 Tie Breaker stations.
- Lead Design Engineer for \$75 million design of upgrading 45 Traction Power Substations replacing Rectifiers, Transformers, AC Switchgear and DC Switchgear:
- Designed protection relaying schemes for medium voltage AC and DC Switchgears.
- Identified problems and inefficiencies with current traction power substations; modified existing facility drawings to resolve recurring building or substation failures; recommends new facility design specifications.
- For all projects, I was responsible for monitoring work performance of contractors to ensure that work was completed in accordance with the contract and specifications of the project.
- Directed and coordinated with other disciplines to assure program activities proceeded as schedules.
- Conducted site surveys to ensure accurate construction procedures were followed.

Construction Inspector:

- Responsible for managing all functions of the job site as it relates to commercial construction from start to completion of the project.
- Interfaced with subcontractors, governmental agencies, and local utilities on a daily basis.
- Responsible for maintaining a safe working environment by implementing all WMATA safety requirement and policies.
- Ensured that all local building and electrical codes were followed by contractors.
- Verified that all contractors were properly trained on their respective task and made sure the jobs were done to WMATA design criteria and standards.
- Responsible for reviewing all equipment and products that contractors were submitting, to verify that they meet or exceed WMATA quality standard and design criteria.

Traction Power Engineer/Construction Inspector
STV Inc.

October 2009 – June 2011
New York, New York

Traction Power Design Engineer responsible for managing DC Traction Power Substations design project for MTA/Long Island Rail Road (East Side Access Project):

- Responsible for the day-to-day management of traction power substations designs which involved tracking and monitoring project progress, scheduling meeting between disciplines to ensure all designs are coordinated.
- Monitored work performance of construction teams and ensure that schedules were met and project was within budget.
- Prepared detailed budgets and analyzed of actual cost of final project for historical data.
- Developed and prepared project deliverable schedules and timetables for completion of projects.
- Prepared and maintained project status reports.

Electrical/Traction Power Engineer/CAD Manager
MATC/AECOM

July 2007 – June 2009
Atlanta, Georgia

Traction power design engineer for Metropolitan Atlanta Rapid Transit Authority (MARTA):

- Executes daily operations of Traction power design, writing specifications and drafting using AutoCAD 2008: consisting of single-line diagrams, metering protection relays diagrams, third rail track and equipment layout plans.
- Responsible for conducting site surveys to obtain existing TPSS condition.
- Coordinated with MARTA engineering to ensure final design met customer requirements.
- Responsible for designing wayside disconnect switches allowing for wayside traction power sectionalizing.
- Designed Vine City traction power substation (pilot project) and one new gap breaker station.
- Produced 90% design drawings and specifications for Avondale, West Lake, North Avenue, SS1(Harold Sheets) traction power substations along with Avondale and Proctor Creek gap breaker stations.
- Responsible for the design of the South Line ETS systems.
- Designed the Ashby Street Tunnel Fan Motor Control Center project.
- Applied guidelines and standards to CAD drawings per the MARTA CAD criteria.

Traction Power Engineer
Regional Transit Partners/ S. L. King & Associates
Responsible for electrical power design for MARTA:

May 2005 – July 2007
Atlanta, Georgia

- Conducted equipment lifespan studies on 38 Traction Power substations for MARTA.
- Responsible for the design of two DC Rectifiers replacements for two MARTA traction power substations.
- Designed the Peachtree Center Emergency Generator and Emergency Fan Motor Control Center Project
- Responsible for the design of Phase I and II UPS emergency backup systems for 9 MARTA passenger stations.

Electrical Engineer

Robertson & Loia Roof, Inc.

June 2001 – May 2005

Alpharetta, Georgia

Responsible for electrical power distribution system design, modular meter groups, lighting systems design, grounding system design, and auxiliary systems design for commercial, industrial, and educational facilities for process installation:

- Designed secondary systems including fire alarm, security systems, and telecommunications systems (voice and data)
- Responsible for total electrical design for major clients (Kroger, Sembler Development, and CVS)
- Executed daily operations of electrical design using AutoCAD 2004: electrical single line diagrams, electrical panel schedule, and arc fault calculations
- Extensive knowledge of the 2008 NEC and NFPA standards

Electrical Engineer

QWEST COMMUNICATIONS

February 1998 – April 2001

Atlanta, Georgia

Responsible for electrical power distribution system design, instrument control panel design, lighting systems design, grounding system design, and auxiliary systems design for commercial, industrial, and institutional facility for process installation:

- Designed secondary systems including fire alarm, security systems, and telecommunications systems (voice and data)
- Responsible for delivery of complete and accurate detailed design drawings including cable routing, connectivity diagrams, and electrical schematics
- Utilized various engineering calculations to determine design, including voltage drop and load calculations

Electrical/Sales Engineer

NORTEL NETWORKS

May 1996 – February 1998

Alpharetta, Georgia

- Performed site surveys, designed electrical power systems, telecommunications equipment, and lighting designs for telecommunication facilities.
- Responsible for sales of telecommunications equipment to customers.
- Project managed all assigned projects from start to completion: including ordering and tracking material, managing projects budgets, and selecting contractors.

EDUCATION

Bachelor of Science, Electrical Engineering

Southern Polytechnic State University

December 1995

Marietta, Georgia

SKILLS AND CERTIFICATIONS

- Georgia Residential/Light Commercial License (RLCI001582)
- Autodesk Certification (Autocad and Revit)
- Autodesk Revit
- All Microsoft Office Products