

Ryan J. Long

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ryanjlong.work@gmail.com

Entrust Solutions

Assistant Consultant of Distribution System Planning & Analysis, 10/23/23 - 4/6/24

Project: KORSAIL, Solar Photovoltaic Planning and Design

- Located property boundaries and developed layout for future solar array and photovoltaic installation.

Project: EXELON, Distribution Analysis

- Analyzed CYME for electric distribution system planning, design, reliability, construction, operations, and maintenance.
- Technical drawings produced in AutoCAD of reclosers, switches, and other overhead equipment.
- Suggested recommendations in the form of modifications to distribution infrastructure to ensure safe, reliable, cost-effective, and responsive delivery of electric service to end users.
- Considered all aspects of the power system design and operation to evaluate performance and develop recommendations to maintain reliability and efficiency of the distribution power system.
- Concise, technical reports, preliminary drawings, and one-line drawings.
- Received peer review and editorial feedback.
- The consultant considers all aspects of power system design and operation to evaluate performance and develop recommendations to maintain reliability and efficiency of the distribution power system.

Entrust Solutions

Design Specialist, 10/24/22 - 10/23/23

Project: XCEL ENERGY, Distribution (DI Program)

- Electric distribution and service reconstruction OH to UG conversions and relocations.
- New electric and gas service installations.
- Preconstruction technical drawing interpretation, and site visit photo analysis.
- Electric load calculations, interpretation of panel scheduling.
- SAP SN creation backgrounding, Umbrella ID, WBS identification.
- Cost estimations and customer construction allowance estimations.
- Communication with area engineers.
- Gas service relocation and new gas service design.
- Gas load calculations with gas wheel chart.

Project: DUKE ENERGY, Pole Replacements and Equipment Retrofitting

- Project management and submittal process through Maximo
- Traffic Control, Overhead Labor, and Permit submittal
- Customer contact and notification of work being done.
- Foreign owned, agency owned, joint use, pole submittal and procurement
- Designed and developed technical construction plans using Bentley Open Utilities Design (BOUD)

Project: XCEL ENERGY, Residential Transformer Replacement Program

- Conducted pre-construction site visits with customer and contracting organization Xcel Energy.
- Technical Drawings, Labor Estimations, Cost Estimates, Parts List, and Summations of Materials.
- SAP Software Solutions transaction codes and submittals.
- Traffic Control, Overhead Labor, and Permit submittal
- Designed and developed construction plans using GIS Smallworld.

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Syracuse University, VPA, Bachelors of Industrial Design, 2017

Kiewit

Electric Distribution Designer I, 6/13/22 - 10/21/22

Project: San Diego Gas and Electric

- Created construction drawings abiding by Design standards set by client SDG&E.
- Detected, Analyzed, and submitted RFI's (Requests For Information).
- Used GIS System to create location maps.
- Produced Drawing Sets for use in AutoCAD.

TRC Companies Inc.

National Grid

Electric Distribution Designer I - Contractor with TRC Companies, 01/13/20 - 05/06/22

- Project: National Grid, Advanced Data Management System Procurement
- Designed Electric Distribution Feeders with utilities model program Small World GIS in preparation for the Advanced Data Management System to assist operations support, outage management, and secondary customer service point analysis.
- Process was performed using field photos and GIS Data from IMAP ARCGIS.
- Created designs within Smallworld GIS according to assets identified in vendor photos with Virtual Walk Down process.
- Identified discrepancies between three components GIS, IMAP, and Primary Index Map to external departments such as "Maps and Records" and "Distribution Planning and Asset Management."
- Reviewed additional feeder errors in the validation stage.
- Communicated with the Quality Assessment / Quality Control team to process all details.
- Primary Index Maps were referred to as Regional Control Center Maps in NY and Emergency Map Systems in NE.
- This project covered all of National Grids territory including New York and New England.
- Was a selected team member for work on Rhode Island territory to ready the area in time for PPL sale as considered a performance driven employee.

Osmose Utilities Services

Technical Services - Field Technician, 05/13/19 - 08/14/19

- Inspection of power lines and telephone poles documented measurements for load calculation on the pole and identification of hazards for client National Grid and Avangrid.
- Infrared inspections and splice documentation for forest fire prevention and general maintenance for PG&E.
- Collected field data as crew foreman and manager of crew.

Leidos

Field Engineer - Powerline Utilities, Temporary Employee with Aerotek, 10/08/17 - 5/13/19

- Examined outside Electric Utility Circuits to ensure present field design was up to NESC code.
- Conducted field documentation pictures, measurements for pole load calculation reporting and analysis.
- Documented flaws such as NESC violations, construction standards, and hazards.
- Shared these findings with the design team to develop changes for client National Grid.

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Baker Hughes GE Oil & Gas

Digital Services - Document Coordinator, Temporary Employee with Kelly Services, 10/23/17 - 2/28/18

- Supported engineering team in locating drawings/documents for transfer of work initiatives.
- Conducted searches of network drives to locate material documents while following document priority as set by engineering.
- Used basic knowledge of Microsoft DOS to expedite the document search process.
- Reconciled document revisions with most recent releases in SAP.
- Tracked progress and communicated issues/roadblocks as needed to keep the project on track.
- Underwent full background check to handle export control documents and complied with non-disclosure agreement.

SUNY Upstate Medical University

IMT Department - Operative and Networking Services, Assistant to Project Manager, 01/01/16 - 01/01/17

- Attended meetings frequently with architects and stakeholders, to discuss current renovations.
- Developed Excel spreadsheets listing new and existing equipment, IP addresses, jack numbers, Epic IDs.
- Designed floor plan in AutoCAD, detailing the placement of network jacks and equipment for cabling cost estimation.

Technical Skills

GIS Small World, CYME, Bluebeam, National Electric Safety Code, Bentley Open Utilities Designer, Utilities, Systems, Applications & Products in Data Processing (SAP), Pole Load Calculation, Ocalc, Pole Foreman, IKE GPS, Guying, InDesign, Illustrator, Premiere Pro, Rhino 3D, Solid Works, Key Shot, AutoCAD, Fusion 360, Rapid Prototyping, Excel, Power Point, Microsoft Word, IT Networking, Cost Analysis, Advanced Technical Drawing Skills.