

# Clifford Minard

Arvada, CO 80004

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## Work Experience

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### **Substation Drafter / Designer**

WSP - Centennial, CO

November 2017 to December 2022

Greenfield Substations

Brownfield Substations

Upgrades & Retrofits

Daily duties:

- ❖ Control House Drafting including Plans, Layouts, Panel Elevations, Lighting, Details, AC/DC Schematics and Plans, Cable Tray etc.
- ❖ In-Ground and Above-Ground Packages including Physical layouts, Conduit, Grounding, Bill of Materials, Layouts, Details, Elevations, Parts and Materials
- ❖ Responsible for the Design and Drafting of In-Ground and Above Ground Grounding Packages
- ❖ Responsible for Control House Design and Drafting
- ❖ Understanding the local and client preferred electrical codes, Spec's and practices

### **Mechanical Drafter / Designer**

KLJ Salt Water Facilities Midstream Oil Facilities - Englewood, CO

June 2019 to March 2020

Electrical Substations

Daily Duties:

- ❖ Responsible for the Design and Drafting of Salt Water Facility Diagrams and PID's
- ❖ Worked with Engineer's, Project Managers and Clients
- ❖ Project Documentation and Package Submittal

### **Electrical and Instrumentation Drafter / Designer**

Arvada, CO

July 2017 to July 2017

Electrical Junction Box Packages, Bill of Materials, Layouts, Junction Box Wiring Diagrams, Instrumentation Wiring

Diagrams, Motor Schematics, Incorporate Customer Comments, review Quotes and Materials, review Electrical

Customer Spec's and choose Junction Box Size, materials, Cable and Instrumentation based on Customer Spec's.

Daily Duties:

- ❖ Responsible for the design and drafting of electrical and control junction boxes for pump and compressor skids for large scale downstream projects in various parts of the world with different hazardous area requirements and electrical codes.

- ❖ Responsible for terminal block count, type, and interconnections from junction box to field instruments and connections for complex projects.
- ❖ Understanding the local and client preferred electrical codes and practices.

### **Electrical and Instrumentation Drafter / Designer**

Wood Group Mustang - Denver, CO

December 2013 to April 2015

Utility Connection Plan, Site Substation, Grounding/Lightning Protection Plans and Details, Cable Tray Routing and

Details, Junction Box Wiring Diagrams, Cable and Conduit Plans, One line Diagrams, Motor Schematics, Installation

Details, Key Plans, Control and PDC buildings layouts, Control Panel layout Drawings.

Daily Duties:

- ❖ Responsible for the design of major projects both Greenfield and brownfield, with detail design elements resulting in large packages that include junction box layouts, installation details, and grounding details for major downstream projects.

### **Substation Drafter / Designer**

Black & Veatch - Denver, CO

February 2010 to May 2013

69- 500kv, 1 & 3 Line Wiring Diagrams, Junction Box Wiring Diagrams, Panel Diagrams, Ac/Dc Schematics, As Built, Red- lines, Bill of Material, Structural General Arrangements, Batch Plot Sets, Drawing Requests, Submittal Package,

Document Management, Field Experience.

Daily duties include working directly with engineers, designers, and clients to develop deliverables based on engineer mark-ups, rough sketches, field corrections. Executed drafting by means of electronic files, hard copies, Pdfs, photos, and verbal/written instructions. Complied with company recommended AutoCAD and design standards, Standard Operating Procedures, practices, project standards, and quality assurance standards.

## Education

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Avatech Solutions

January 2010 to December 2010

### **Computer Science**

Valencia Community College

January 2007 to December 2009

## Skills

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- Navis
- ProjectWise
- Heat Trace Calc pro2
- 2008-2018, Autocad (MEP/Electrical/Civil 3D/Raster Design)

- Bluebeam
- Documentum - Microsoft Office Suite (Including Teams)
- WorkSpace
- AutoCAD
- CAD
- NEC
- NavisWorks
- Drafting
- Layout design
- Schematics
- Electrical wiring