

JEREMY C. NEF

320 Voll St Helper, Utah 84526 (435) 630-5512 jeremycnef@gmail.com <http://resume.jcnef.com/>

CAREER SUMMARY

Computer Aided Drafting professional (CAD drafter) with over 10 years of professional CAD Drafting experience who has worked on various engineering projects primarily in the field of Electrical, Instrumentation, and Controls. Has also worked in the other engineering disciplines of Mechanical, Piping, Process, Civil, Structural, and Architectural. Did projects in industrial, commercial, and residential areas; has worked industrially with oil, gas, coal, grain, potash, phosphate, ore, copper, and water; also worked commercially and residentially with buildings, apartments, streets, parks, substations, and power lines.

COMPUTER & ENGINEERING SKILLS

CAD Skills:	<ul style="list-style-type: none">• AutoCAD (2021)• AutoCAD Electrical (2021)• Autodesk Inventor (2019)• AutoCAD Raster Des. (2016)	<ul style="list-style-type: none">• MicroStation (V8 XM)• Autodesk Revit (2018)• AutoCAD Civil 3D (2018)• AutoCAD Util. Des.(2016)	<ul style="list-style-type: none">• MS Visio (2007)• TrueView (2016)• Autodesk Vault (2018)• AutoCAD Arch. (2018)
Drafting Skills:	<ul style="list-style-type: none">• 2D-3D CAD drafting• Mechanical• Structural• Electrical, Instrumentation & Controls	<ul style="list-style-type: none">• Electronics• Architectural• Process (P&IDs)• Read blueprints and redlines	<ul style="list-style-type: none">• Piping/HVAC• Civil• Reverse Engineering
Other Technical Skills:	<ul style="list-style-type: none">• MS Office (365)• MS FrontPage (2003)• Adobe Acrobat Pro (XI)	<ul style="list-style-type: none">• PhotoShop (CS)• HTML	<ul style="list-style-type: none">• Dreamweaver (4)• other web site software

Specific Electrical Drawings done (power distribution): single line diagrams, site & layout plans, SWGR, MCC, PLC, & Panel other cabinet related drawings, conduit layout & stub-up plans, lighting plans, power/receptacle plans, building layouts & sections, duct bank sections & details, cable tray sections & details, panel board schedules, motor schematic diagrams, control schematic diagrams, wiring diagrams, device/instrument layouts, power pole & underground power line plans, elevations & details, concrete/support, conduit/cable schedules, grounding plans & details, substation electrical & structural plans & details, and more.

PROFESSIONAL EXPERIENCE

Stay At Home dad; on Disability - Utah, 2022-present

Drafter, Electrical; BRUNO ENGINEERING, Price, Utah, 2010-2022

Transmission and Distribution, Substation Design, Power Systems Analysis, Power System Design, Mining Power Systems, Industrial Power Systems, Gas & Oil Field Power Systems.

- Provided electrical drawings, as well as civil/structural foundation and architectural support drawings to help in building and upgrading electrical. Worked on electrical drawings for substations, power distribution (7.2kV – 138kV with above ground & underground power lines, 4.16kV with SWGRs, 480VAC with MCCs & power panels, 120VAC lighting panel distribution, and 24VDC distribution); electrical related equipment (transformers, PLCs, MCCs, SWGRs, VCBs, Control Buildings, etc). Also did electrical drawings to provide power for other equipment such as conveyors, heaters, air compressors, bucket elevators, etc for the mining industry. Created mechanical drawings for some projects as well. Did architectural and electrical drawings for additions to our local office building.
- Generated CAD drawings for over 100 different projects primarily being for power distribution for the mining industry, for plants like Intrepid Potash, Kennecott, Bridger Coal Company, Bill Barrett, among others. Created electrical drawings for Price & Levan cities for street lighting, recreational area lighting, substations, etc; also did substations for Fresenius Medical Care, Price City, and other locations. Provided drawings for a school, a park, street lighting, etc for Carbon County. Did electrical drawings for some local private companies as well, along with drawings for a small airport.
- One of the projects done, start to finish, consisted of over 611 drawings (556 electrical drawings, 17 structural/concrete drawings, and 38 P&ID drawings by the time it was finished. When finished, the project site had over 10 control buildings, 10 power transformers, 8 DCS (PLC) cabinets, 4 Switchgear (SWGR) cabinets, 8 MCC cabinets, 141 pieces of mechanical equipment (including 14 conveyors), and over 1791 instruments.

- Helped develop a set of CAD Standards to include over 150 layers & line types; created multiple 2D & 3D CAD Blocks and Symbols, including many AutoCAD Electrical searchable “smart” symbol libraries for P&ID, single-line, schematic, and panel drawings, that could be automatically counted and reported in a variety of reports, including Bill of Materials. Also added new entries in a catalog database to automate generation of the Bill of Materials and other reports using the symbols I created; along with many drawings listed below.
- Produced over 500 “template” CAD drawings and organized them for the company to use both to start project drawing sets and to help during project development. These drawings saved tons of time doing projects, since we didn’t need to start each drawing from scratch or spend much time figuring out which drawings need created for a given project, which helped with more efficient, consistent and nicer looking drawing sets. It proved to save a lot of time for both the engineers & the CAD drafters when creating drawing sets for projects.
- Compiled and organized hundreds of drawings from past projects done, to use as “go-by” drawings that were categorized by type of drawing to use as needed for reference which also sped up productivity.
- Compiled various equipment cutsheets from vendors to be used as reference for materials and equipment used in projects.
- Created user manuals & training notes for new software we were learning to help us learn it better and use it more efficiently to help in our CAD drafting and engineering; for AutoCAD Electrical, Revit, AutoCAD Architecture, Civil 3D, Inventor, Utility design, and Vault.
- Created and compiled “master” material lists for power line & substation projects, to be used for current and future projects. All this above saved the company time and money.
- Created & compiled O&M manuals to help customers with project equipment after our designs were built.

Drafter, Electrical; *FLUIDIQS*, Sandy, Utah, 2010

Preeminent integrator in the water and wastewater market.

- Produced electrical, instrumentation and control as-built drawings needed for a project. These as-built drawings consisted of over 280 panel and loop drawings for a government regulated municipal wastewater treatment plant. (*short-term Contract position)
- Created and updated more loop drawings, consisting of over 270 as-built and newly generated drawings, using a conductor schedule, I/O diagrams, MCC drawings, schematics, P&IDs and field markups for 3 projects involving wastewater treatment plants. (*another short-term Contract position)
- Developed changes and updates of more as-built loop drawings and panel drawings, per the electrician’s markups, consisting of almost 400 as-built drawings for yet another project. (*short-term Contract position)

Samples of my CAD drafting work can be seen at: <http://resume.jcnef.com/>

See Addendum, for more professional work experience, work history, skills, and education, upon request.

See Letters of Recommendation and References from past employers, upon request.

EDUCATION

- Electrician Program Diploma, Professional Career Development Institute (Ashworth College)
- Site Designer certificates, New Horizons, Salt Lake City, Utah
- B.A.S., Industrial Design Technology, ITT Technical Institute, Murray, Utah
- A.A.S., Computer-Aided Drafting Technology, ITT Technical Institute, Murray, Utah
- Plus numerous project and technique seminars and trainings throughout career history