

# Gordon James Kelcher

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<http://3dcaddraftingservices.webs.com/>

## SUMMARY OF QUALIFICATIONS:

**Electrical/Mechanical C.A.D. Designer** seeks full time position in engineering. Brings over 15+ years of progressive experience in the Computer aided drafting/design and implementation of numerous products, drafting standards, and working with various equipment and tools. Including all phases of conceptualizing assemblies, 3-d modeling, problem solving and team project work.

## PROFESSIONAL PORTFOLIO:

- Built solid reputation for effective leadership by implementing new process, innovative techniques, overseeing business goals, protocols and functions.
- Wrote information change notices for customer, shop and engineering revisions.
- Ability to design 3-D models from flat 2-D geometry in Auto-cad and Pro/engineering.
- Performed ISO 9000, 9002 audits and efficiency calculation to lower manufacture cost.
- Reduced over 800-labor hours annually by designing a Bushing Jig mechanism.

## TECHNICAL PROFICIENCIES:

- Pro/engineering 2000i
- Solidworks 2000
- AutoCAD 2006 thru 2008
- Micro Station / Auto plant
- Detailing and revising drawings
- Crimping programs

## EMPLOYMENT HISTORY:

12/2008-5/2009                      **Ameren U.E.** (Contracted by Manpower)                      St. Louis, Missouri

Drafter/Designer

Updated all fire department and emergency exit drawings for Portage Sioux steam generated power plant. Utilizing O.S.H.A, safety, updated fire codes and plant layouts.

04/2008 to 06/2008                      **Counsilman & Hunsaker**                      St. Louis, Missouri

Project designer (Contracted )

Designed complex competition swimming pools and spas. Utilizing architectural drawings and Auto2008. Piping layout and Pumps configuration and sizing. Detailed drawings and sketches for contractor.

01/2007 to 2/2008                      **Middough Design Consulting Inc.**                      St. Louis, Missouri

Designer and Drafter

Updated complex 3-d models for chemical plants and power plants in the Mid-west.

Utilizing Bentley Auto Plant 2004 and AutoCAD 2006 software.

Develop and manage documentation, documents, and drawings. For the following Plants: Kraft Foods, B.A.S.F Chemical plant and Monsanto.

6/2005 - 12/2006                      **Killark Electric Co.**                      St. Louis, Missouri

Designer and Drafter:

Created complex assembly drawings and bills of materials for castings and machining. Solid 3-D modeling on Unigraphics 4.0 and Autocad 2006 software. Provided technical support for the development of explosion proof control cabinets and junction boxes.

5/2004-7/2004                      **Butler Services at EASI (DoD Clearance)**                      St. Louis, Missouri

*Sr. Pro/Engineer Designer*

- Created complex drawings and bills of materials for ordering materials. Solid modeling on Pro/Engineering 2001.

8/1991-2/2004                      **ABB Inc. Power Transformer Division**                      St. Louis, Missouri

***Sr. Engineering Technician***

- Designed more than 12 Million Dollars small to large core distribution sub-station power transformers annually by examining customer requirements such as size constraints, cooling and electrical characteristics.
- Reviewed work for quality, accuracy and conformance with established company standards and practices.
- Performed ISO audits on sub-station. 3-D Solid modeling on Pro/Engineering 2000i.

1990-1991                              **Robertson and Cupples**                              St. Louis, Missouri

*Drafter/ Designer*

- Drafted and designed custom aluminum extruded window frames and commercial walls. Created complex drawings and bills of materials for ordering materials.

1990-1991                      **Industrial Electrical Equipment Company, (INDEECO)**                      St. Louis, Missouri

*Drafter*

- Drafted explosion proof unit heaters, pressure vessels and heat transfer vaporizers.
- Designed tank heaters, duct heaters and controls.
- Design of sheet metal, injection molded, and die-cast components, and experience in documentation control for electro/mechanical components.

#### **NOTABLE ACHIEVEMENTS:**

- Auto-point sub-station
- HV / AC Designs
- Co-generated Power plants
- AC/DC Electric Motors
- Welding, Weldment and Plasma cutting
- Sheet metal layout
- Single Phases transformer
- Technical Mathematics
- Schematic and Name Plates
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#### **EDUCATION:**

2006-present St. Charles Community College

Certification of Specialization in Computer Aided Drafting (Architectural)

1999-2003

Certification of Completion in Pro/engineering 2000i and Wildfire

1987-1989      St. Louis Community College

Certification of Specialization in Computer Aided Drafting

1985-1989      St. Louis Community College

Associate of Applied Science Degree, Technical Illustration