

Gregory Krouse

1500 N. 3rd St., Apt. #233, WI 54220 (920) 374-9754 gakrou@msn.com

<http://www.gak-architecture.weebly.com>

OBJECTIVE: Apply extensive experience in architectural/structural design/engineering as a Product Configuration System Manager or Director. Emphasis in leading teams of designers and engineers using state of the art BIM intelligent software to manage highly configurable engineered products employing CAD, 3D modeling, scripted applications, and database administration. Specific skills authoring intelligence for configuration systems capturing rules and logic for automated BOM, product design engineering standards, parametric drawings, and corporate engineering data linked to UI, ERP, MRP, CAD, CNC, Media/printing operations and shop floor processes.

HIGHLIGHTS OF QUALIFICATIONS:

Technical Competencies

Proficient with PARAGRAFIX Configurator, Tekla 3D modeling, Revit, MBS (Metal Building Software), AutoCAD 2007, Strucad, Google Sketchup, ArcView 8.2, Microsoft Office Pro, DataCad, SQL Server, ODBC, MS DOS, SQL, HTML and Auto Lisp. Proficiency and knowledge of AISC manual, IBC, ADA, Arch. Standard, for compliance of state and local buildings codes and permit approval. Develops software applications including: Parametric graphics, databases, system integration, CNC instructions, ERP (BPCS) and CAD interfaces. Extensive product and company rules capture with digital archival and retrieval. 27 years' experience in product development, design, and detailing of Building systems such as mezzanines, stair systems, pre-engineered metal buildings, spaceframes, skylights, storefront curtain wall, bar joists, railings, case-good furniture and tradeshow exhibits. Product development for manufacturing; product aesthetics, engineering, drafting standards, material sourcing, specification writing, and structural loading and material sizing methods. Consults to identify product rules, logic, and existing drafting/engineering methods to optimize and integrate with new computerized methods that maximize digital information benefits to organization.

Interpersonal Communications & Organizational Needs Analysis: Interviewing and interaction with internal customers and end-users including drafting/engineering professionals, supervisors and shop team; interprets and recommends appropriate solutions and follows through to meet individual and departmental needs. Trains and oversees computer operators.

Written Communications & Documentation: Produces all types of technical illustrations and construction documentation for architectural and structural products: bills of materials, schedules and charts, assembly instructions, color rendered perspectives and exploded isometrics. Skilled with written communications including development of proposals and specifications.

HIGHLIGHTS OF ACHIEVEMENTS:

- Provisional patent approval for a pendulum linkage arm which improves energy efficiency for systems in rotation.
- Introduced new IFC (industry foundation classes) functions and assisted development for use in configurators.
- Significantly reduced departmental overhead, optimized employee retention, increased competitive advantage and minimized shop labor needs at Wildeck and R&B Wagner Co. Effected results through application development for process control and product configuration design/engineering surpassing automation expectations, creating new efficiencies and capabilities for data manipulation, consistent rules documentation, data search ability, reporting and analysis.
- Fully automated the engineering static calculations process and reporting package through interviewing of current licensed PE capturing content and establishing companywide standards and to archive as intellectual property.
- Successfully produced automatic creation of CNC instructions via product configuration automation linking Detailing Dept. to Shop floor for direct download of CNC data. Also developed "Knock-Down" versions of standard stair and ladder products eliminating welding operations, improving profit margins by lowering shipping costs, and decreasing installation costs by eliminating needs for crane/lifts.
- Authored dozens of online product configurators linked to ERP for direct customer access to price quotes and engineering/sales configurations. Authored, developed, implemented and administrated custom programmed network of desktop applications automating redundant administrative interoffice processes such as: return of merchandise, inventory tracker, material optimization, sales summaries; eliminating errors, communication breakdown.
- Worked in conjunction with the Director of Design Engineering for Walgreens Inc. Midwest in creating a new prototype exterior design concept for criteria building spec. New concepts improve ADA compliance, building aesthetics, company image and overall improved occupant functionality. Implemented strategic use of the entrance tower as a custom element for each store with more modernized uses of the curtain wall storefront.
- Improved accuracy and productivity for Foremost Buildings engineering and detailing departments by properly installing and configuring engineering/detailing software program.
- Detailed a multiple phase 280,000 ft² metal building warehouse facility which earned recognition in Metal Building News, March 1997. Inland buildings received a second contract for another 300,000 ft² building from the same customer that same year.
- Developed the space-frame design which led Mero Systems Group to be named the specified manufacturer for Circuit City Stores' and Maurices' nationwide projects. Appointed to manage all design/bid requests for new stores from 1990 to 1992.

- Selected to develop specification drawings and detailed part drawings (design standards) for engineering masters used for 4 different lines of contract hospitality furniture and a unique rattan baby crib for EBCO/Newport Exchange.

PROFESSIONAL HISTORY:

Consulting Work

GK CONSULTING – **Programming, Residential Home Design, Patent drawings**, 2009-present
 THE WAGNER COMPANIES – **Configuration System Analyst/Developer**, 2008-2009
 STRASS-MAGUIRE & ASSOCIATES – **Structural Design Draftsman**, 2004
 BURGER BOAT – **Draftsman/Joinery Designer**, 2004
 WENZLER ARCHITECTS - **Architectural Designer CAD Draftsman/Detailer**, 2004
 MARK PFALLER, AIA – **Architectural Designer CAD Draftsman/Detailer**, 2004
 STUART ROTHMAN, AIA – **Architectural Designer CAD Draftsman/Detailer**, 2004
 PDC DESIGN GROUP – **Architectural Designer CAD Draftsman/Detailer**, 2004
 TURNKEY SCHOOLS OF AMERICA – **Software consultant**, 2003 to 2003
 WILDECK INC. – **Detailing Programmer/Process Control**, 1999 to 2003
 RENNER ARCHITECTS – **Architectural Designer**, 1998 to 1999
 FOREMOST BUILDINGS INC. – **Programmer/Metal Building Detailer**, 1998

Direct Hire

THE WAGNER COMPANIES, **Process Control Engineer**, Milwaukee, WI, 2006-2008

- Authored custom engineering/detailing desktop and online configurators.

THE ALBION GROUP INC., **Project Manager**, Milwaukee, WI, 2005-2006

- Managed multiple projects simultaneously and at varying phases of the design process.
- Responsible for building/site design, CAD construction documentation, specification writing, city and state approval processes, coordinating design consultants, checking and approving shop drawings, development of presentation drawings, and overall project coordination from design inception to certificate of occupancy.

WILDECK INC., **Detailing Programmer**, Waukesha, WI, 1999-2003

- Analyzed existing processes and developed and implemented more efficient software programs for configuring product lines, generating drawings, BOM's and engineering calculations. Projects effected complete departmental automation through database management, AutoCAD customization, PARAGRAFIX configurator software development, CNC file transfers, ERP interface, 3D modeling system, and other automation related projects.

INLAND BUILDINGS INC., **Senior Detailer**, Waukesha, WI, 1994-1998

- Reviewed design calculations and client specifications for takeoffs within tight deadlines.
- Designed, drafted, detailed and checked pre-engineered metal building structures. Drafted erection drawings, shop drawings, and bills of materials using Autocad, Design Graphics and MBS software systems.
- Managed/configured MBS software for detailing. Developed batch programs for printing/plotting operations. Set-up and configured personal computer workstations, hardware and software for various DOS and/or Windows applications.

ACE BUILDING SERVICE INC., **Sales/Design Consultant**, Manitowoc, WI, 1992-1993

- Sold building construction services/BUTLER pre-engineered metal building systems.
- Generated new business through cold calls and telemarketing. Conducted design presentations and
- Developed budgetary proposals for clients. Ensured compliance with building codes and city zoning regulations. Produced topography plans, space plans and 3D illustrations for proposed projects.

MERO STRUCTURES INC., **Estimator**, Germantown, WI, 1990-1992

- Designed building components for modular construction systems including space-frame canopies, and trade show exhibit structures.
- Provided technical support to distribution network of display houses, interior design firms and architectural sales representatives regarding technical issues in the area of design and project's materials/cost estimation.
- Prepared proposals that established specifications into construction documents. Provided technical support to contractors regarding installation or assembly of structure.

INDEPENDENT CONSULTING, **Product Designer/Drafter**, 1988-1990

The Display Shop Inc.: Custom exhibits/displays; *Newport Exchange Inc.:* Drafting for retail/contract furniture lines; *Lakeshore Display Company Inc.:* Display designs, full-color presentation drawings, and assembly drawings/instructions; *Convenient Video:* store fixture construction and assembly drawings.

EBCO CONTRACT FURNITURE, **Product Design Draftsman**, Sheboygan, WI, 1987-1988

- Drafted product standards and wrote CNC instructions for "knock down" case-good furniture.

SUPERSKY PRODUCTS, **Layout Drafter/Detailer**, Milwaukee, WI, 1986

- Drafted layouts, and detailed connections of skylight systems for manufacturing and site assembly.

EDUCATION:

Bachelor of Science, Architectural Studies; 1985
University of Wisconsin - Milwaukee, Milwaukee, WI