



**ROY LEDFORD**





**ROY LEDFORD** #505-823 Royal Ave SW Calgary, AB T2T-0L5 | 403-606-7214 | roy@royledford.com

**Objective:** Passionate and dedicated Technical Manager and Software Developer seeking full-time employment with a software development company.

**Summary:** Highly organized Manager and Developer with over 20 years experience in Software Engineering and Project Management; Graphic Arts, 3D modeling, and Animation. A talent for organizing difficult projects, analyzing problems, developing and simplifying procedures, and finding creative and innovative solutions to complex problems.

**Skills:**

- **Programming Languages:** VB, Microsoft Access, Visual Lisp, C#, LUA, WSH, HTML, CSS, SQL, Install Shield, Wise for Windows, Object Oriented Programming, Business Object Design, Relational Database Design, Visual FoxPro,
- **Operating Systems:** Windows 3.x/95/98/NT/2000/XP/7, Mac OS
- **Applications:** AutoCAD, AutoPlant and related applications, 3DMax, 3Dviz, MS Office Suite, Adobe Photoshop, CorelDraw.
- **Databases:** SQL Server, MySQL, FoxPro, MS Access, FileMaker Pro, dBase

**Career Highlights:**

- Restructured the development and support departments to provide leadership and outstanding customer service to all business units, which directly resulted in a promotion to the Manager role.
- Design and implement in-house AutoCAD tools library that reduced time to roll out new software by 90% and provided a consistent built-in interface for all developers.
- Recruit and build highly successful support team for a 10 year 90 billion dollar project for EnCana Oil and Gas.
- Design and implement custom data warehousing solution reducing reporting time from days to hours for numerous departments.
- Established and managed internal documentation system resulting in 50% reduction in support response time.
- Manage development groups for numerous in-house software applications. The tools developed by these groups are used by designers in their day to day activities to increase productivity saving thousands of man-hours per project.
- Design custom support library and tracking system that reduced field changes by 80% saving millions of dollars in re-work on numerous projects.
- Work directly with department VPs to write department 'Execution Manual'. This document is used by all project members and created a 10% reduction in overall project manpower.
- Develop custom progressing tool to determine percent complete of project engineering, allowing project manager to visually see bottlenecks in deliverables. This tool was later used to visually track various construction milestones.



## Career History:

### **Department Liaison, Engineering Application Systems- 2010 to present**

Wood Group / IMV Projects, Inc. – Calgary, AB - *(Global firm specializing in engineering and construction)*

Department Liaison responsible for meeting with department Vice Presidents, Managers, and users to determine department needs for engineering system tools.

- Provide analysis and design of existing and new workflow and software systems.
- Lead developer / designer of in-house AutoCAD tool library.
- Oversee various department standards for drafting and design work.
- Work directly with department director to developing needs / priority lists, staffing requirements, priority levels, SLAs and budgets.
- Manage in-house 3D Piping and Pipeline supports and visual location tracking software.

### **Manager, Engineering Application Systems- 2007 to 2010**

IMV Projects, Inc. – Calgary, AB - *(Engineering firm specializing in Petro-Chemical plant design and construction.)*

Department Manager supervising of 20 direct report employees.

- Responsible for day-to-day management of staff, organizing and directing department operations, conflict resolution, budgeting, staffing / recruiting, and long term department planning.
- Recruit and build teams for various projects.
- Work directly with department VPs to develop strategies and workflows to increase department efficiencies.
- Manage department 'Execution Manual' and oversee creation of all documentation.
- Meet with Director of Technology and Vice President of Operations to determine best direction for both support and development departments.
- Design and aid in development of custom data warehousing application.

### **Lead, Engineering Systems Support- 2002 to 2007**

SNC-Lavalin, Inc. – Calgary, AB - *(Engineering firm specializing in Petro-Chemical plant design and construction.)*

Discipline lead supervising, training, and motivating three person team responsible for implementation and support of all engineering software and hardware for Petro-Canada RCP projects. Responsible for development of procedures and documentation for use of Bentley AutoPlant piping, structural, electrical and mechanical packages. Provide custom application development as required by project.

- Develop and implement custom Quality Control / Quality Assurance application and reports for 3D models. These reports are run on a weekly basis and distributed to the design staff. The addition of these reports reduced errors in models by 90%.
- Create custom clash-check reporting application and procedures for project use. The application is used to compile reports generated from Bentley ExplorerID into a more usable format for the disciplines.
- Develop custom Material Take Off reports for use by Materials Management. This reduced the total MTO process from 10 hours to 10 minutes.



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- Develop custom Isometric revision tracking system. This system tracks all Iso revisions and provides instantaneous access to the latest revision to project members.
- Institute and run weekly Quality Moment meeting. These meetings provide a mechanism to review current model status, tips and tricks, mini training sessions and procedural updates to the design staff.
- Develop specialized ad hoc reporting procedures and templates for use by support team. This reduced time to provide ad hoc reports to team members by 80%.

**Technology Manager / Application Support Developer- 1998 to 2002**

Nichols/Page Design – Fort Lauderdale, FL - *(Architectural firm specializing in corporate interior design, construction, facilities management, and architecture.)*

Developed Visual FoxPro, Visual Lisp and Visual Basic Applications and oversaw systems administration of internal network. Manage entire life cycle of application development from installation, customization, debugging, and deployment. Managed annual budget, evaluated new software and hardware purchases, and provided technical support and guidance to staff.

- Tasked with migration of an existing FoxPro 2.6 Workflow management application to Visual FoxPro. The migration consisted of solving many UI and architectural issues with the existing application. When complete, the application will save over \$170,000 a year in recouped man-hours.
- Negotiate new contracts with Telecom and Data providers to save the company \$2,000 per month in service charges and fees.
- Develop custom AutoCAD application to generate drawings for Discovery Zone Company. Reduced an eight-hour process to 10 minutes and allowed the firm to outperform two competitors with larger staffs.
- Brought in as production coordinator and mentor to guide the existing project manager in the completion of field measuring 3 million square feet of facilities for Florida Power & Light.

**Senior Project Manager / Designer- 1987 to 1996**

Nichols/Page Design – Fort Lauderdale, FL - *(Architectural firm specializing in corporate interior design, construction, facilities management, and architecture.)*

Serve as point of contact for Interior Design projects. Consult with clients, assessed needs, formalized project requirements, and developed project schedules. Designed schematics, assembled and managed both in-house teams and outside consultants. Report directly to president regarding employee review and evaluations.

- Design corporate headquarters for major financial, beverage, pharmaceutical, and telecommunications companies. Responsibilities included, Schematic Design, Design Development, Team and Staff Management, Finish / Material selection, Construction drawings, and Site Reviews. Interact with clients throughout entire project. Partial Client list includes: Pepsi-Cola, Citibank, Sprint, Meridian Capital Markets, Comerica Bank and Trust, Microsoft, and Delta Airlines among others.
- Develop AutoCAD application using Lisp, macros, diesel, and scripting to facilitate the drafting and design process resulting in a 30% reduction of time to produce drawings.
- Work directly with principals regarding staff management and team direction. Provide feedback for employee performance reviews.

**References:** Available upon request