

# factotum

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## SUMMARY OF QUALIFICATIONS

Cost-conscious engineer with hands-on experience designing and troubleshooting electro-mechanical control systems for special machines. Versatile self-starter and team player seeks growth position utilizing analytical / problem solving skills, computer skills and electro-mechanical knowledge.

- Automated Data Acquisition
- Electro-mechanical Prototyping
- AutoCAD systems development
- AutoCAD end-user
- Technical Writing
- Machine Shop Skills
- Designed Experiments
- Controls Engineering
- Hydraulic Systems Troubleshooting
- Pneumatic Logic Controls Development
- TCP/IP
- DOS / Windows NT / 2000
- Microsoft VisualBASIC
- National Instruments Measurement Studio

## CAREER HIGHLIGHTS AND ACCOMPLISHMENTS

- Pioneered a user-friendly data acquisition system utilizing the marriage of Microsoft VisualBASIC and National Instruments Measurement Studio (Active-X tools). This effort paved the way for simplified proprietary data acquisition tools. Estimated savings potential > \$30,000 per year.
- Established a common data file architecture to facilitate the sharing of proprietary data amongst both hybrid and canned acquisition and analysis packages. Estimated savings > \$30,000 per year.
- Created a software solution to locate and archive proprietary computer files distributed throughout the corporate intranet. This disaster control effort resulted in better leveraging of current assets with potential savings of \$250,000.
- Designed electro-mechanical control systems for special machining and assembly fixtures. Experience Includes: PLC's, programming, systems design & integration, panel layout, component specification and sizing, troubleshooting and debug
- Created an innovative AutoCAD solution. This VisualBASIC program produced batch-processable script files that automatically drove AutoCAD, creating finished controls engineering drawings with very little operator intervention. Potential savings ~ \$40,000 per year.
- Upgraded and maintained 20+ Pentium Class computers of various capabilities and descriptions to meet current IT/IS standards while continuing to support their legacy roles. This effort saved better than \$40,000 in hardware, software and set-up costs alone.
- Produced AutoCAD controls engineering drawings - 5000 hours experience. Through upgrading and streamlining of the prevailing CAD operations, estimated savings were > \$75,000 per year.

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## EXPERIENCE

- 2004 – present North Coast Electrical Co.  
North Coast Prototype Co.  
Fairport, New York 14450  
Self-employed
- 1998 – 2004 Nexpress Solutions, Inc., Rochester, New York  
Electro-photographic Process Technician
- 1992 – 1998 Eastman Kodak Company, Rochester, New York  
Electro-mechanical Technician
- 1989 – 1991 Liberty Tool Corporation, Rochester, New York  
Controls Engineer

## EDUCATION

Associate of Applied Science Degree - Aircraft Pneudraulic Systems Technology  
Community College of the Air Force, Maxwell Air Force Base, Alabama

Undergraduate Coursework - Computer Systems  
Rochester Institute of Technology, Rochester, New York

Automation Mechanic Apprenticeship Training – 7000 hours  
Eastman Kodak Company, Rochester, New York

## PROFESSIONAL DEVELOPMENT

Microsoft VisualBASIC, Introduction and Advanced  
Design of Experiments (DOE) course, Robert G. Launsby  
Alibre Design Professional 3-D Modeling seminar  
Commercial Pilots License, Instrument & multi-engine ratings

## MILITARY EXPERIENCE

United States Air Force  
Active Duty and Reserve – over 21 years of service  
D.O.D. Secret Clearance – through August 1993

## MILITARY AWARDS

Air Force Commendation Medal  
Air Force Achievement Medal – twice awarded