

Paul L. Discher

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General Summary of Qualifications:

Multi Discipline Technical Consultant with extensive experience in instrumentation, electronic components, electronic practices, technical facility design, laboratory management, technical selling, purchasing, technical writing, and the training of adults, and supervision of people in technical or educational venues. Strengths include, 25 years of experience managing engineering and scientific laboratories in higher education, industrial testing and pure research and within venues of constant changing technology.

Work experiences include, but are not limited to: the design and fabrication of specialized workstations, sub-systems and fixtures used in instruction, research, and industrial testing. Knowledge of multi-platform and embedded computer systems and the implications created by such technology mixes. General knowledge of digital media, data network infrastructure with mixed computer platforms, structured wiring systems, network plant equipment, linear video production, video editing, imaging systems, multimedia technologies and experience with the pursuit of **(COI)** continuous ongoing improvement metaphors of industrial methodologies, processes, technical practice, and business procedures.

Professional Experience

www.dischercreative.com **creative and technical consulting**

Jan 2003 - Present

Owner and sole proprietor of a professional technical consulting and industrial training service to a broad-spectrum of clients such as: education, manufacturing, industrial research, higher education, Elementary & Secondary Education-K-12, graphic arts, and publishing. **Loyola Academy (fall 2005):** Installed two unmanaged Ethernet switches replacing lightning damaged equipment, diagnosed and repaired Ethernet cable and installed structured wiring systems, performed OS fresh installs on 36 Apple Macintosh Computers, located unused equipment and deployed it as a server to support vertical market education software. **Athena Advertising,** registered agency internet domain, secured hosting services deployed web page content setup and managed local area network performed OS upgrades to 3 –Macintosh systems, deployed PC accounting software to a dedicated Windows XP Laptop. Worked with several independent graphic designers at their premises, diagnosing Macintosh OS conflicts, upgrading OS, making and implementing hardware upgrades.

Monsanto / Todays Staffing

February 2005 - July 2005

Electronic Technician I, a temporary position as a multi-disciplinary engineering technician for the deployment of new research and automated testing apparatus, operating with little to no supervision in a project management role. This assignment entailed design, modification, setup, and validation, of multi-vendor scientific laboratory and mechanical apparatus, consisting of electrical & electronic controls, digital systems, structured wiring, and documentation. Duties included written reporting, verbal and written interaction with outside vendors, machinists, engineers, technicians, and other crafts in order to meet design and regulatory compliance issues of the plant(s) and related facilities. Performed mechanical systems designs, modifications, validations and developed engineering specifications in order to enhance and achieve functional performances and meet operational deadlines.

Watlow Heater Technology Center

Nov 2000 - Apr 2002

Test laboratory Team Leader, a supervisory position in an industrial research facility for testing electric heaters, controls, and heater systems. Leadership and technical support for laboratory facility design and management as well as destructive and nondestructive testing methodologies using ASTM procedures and devised new proprietary methods for the assessment of incoming post-processed raw materials, components, and turn-key subsystems. Also was OSHA safety manager for this facility authored articles and performed general industrial photography for internal Watlow corporate newsletters.

Washington University Dept of Electrical Engineering,

Jan 1990 - Jun 2000

Supervisor of Technical Facilities, a supervisory position in private University overseeing facilities, operations, and the ongoing improvement of facilities consisting offices and laboratories equipped with electronic test and measurement equipment and computers for instruction, research and department administration. Designed innovative electronic apparatus and subsystems used to support instruction, research, and classroom demonstrations. Managed facility construction renovation projects under \$40,000 for laboratory and general office occupancy. Procured technical and administrative supplies, and managed a team of 14 work-study student employees. Designed course materials made presentations to adults and taught classes in electronic practice and safety. Acted as professional staff photographer and videographer for instruction, publicity, and organizational publications.

University of Missouri St. Louis - Physics & Astronomy**Aug 1985 - Dec 1989**

Director of Technical Laboratories, a supervisory position in a branch of a state university system overseeing facilities consisting of teaching laboratories composed of mechanical and electronic scientific apparatus, used for University level instruction, classroom demonstrations, and special University public relations initiatives. Procured technical and administrative supplies. Acted as laboratory instructor. Provided technical drawing video & photography support for scholarly publications.

Education:

Consisting of 119 total college credit hours and continuing education

- **Associate Degree (AAS) Engineering Technology**
St. Louis Community College at Forest Park
(Continuing education summary)
 - **Washington University - University College / Continuing Education**
24 Credits Towards Bachelor Degree Engineering Technology
 - **University of Missouri - Undergraduate Engineering**
35 Credits Towards Bachelor Degree Engineering
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Business Acumen and Technical Skills:

- Computer Literate OS: Apple Macintosh, Intel/Microsoft PC, Client Unix
 - Macintosh Background: <http://dpdtech.com/~pld/resume/1macbackground.pdf>
 - Computer Literate Applications: Windows, MS Word, and Excel
 - Macintosh applications: PhotoShop, PageMaker, MS Office, Claris/ Appleworks, Filemaker
 - Computer Literate internet applications: email etiquette, ebay selling
 - Web browsers: Netscape, Internet Explorer
 - Web Programming: capable of coding /decoding web pages in HTML 4
 - Internet Marketing: Ebay buying and selling, Ebay etiquette: Car soup.com,
 - Experiences in Facilities Management: maintenance, housekeeping
 - Construction Management supervision & coordination of subcontractors & vendors.
 - Teaching / training adults and developing courseware computers, electronics, processes.
 - Knowledge of Electronic Test and Measurement instrumentation: operations, selection by specifications, installation, maintenance, and training of adults on it.
 - Hospitality Event and Promotions Experience:
 - Industrial & Retail Sales Computers & Software:
 - Design Digital and Analog circuits & apparatus for instruction, demonstration, & testing.
 - Technical Writing:
 - Mentoring / Advising Students in academic environments (higher education)
 - Still & Video Photography as well as linear video editing
 - Samples of still photography: <http://dpdtech.com/~pld/photography/index.html>
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Professional References

- **Heather Pfeil Owner, Athena Advertising LLC**
7297 Meramar Drive St. Louis MO 63129-5661 Voice: 846-5673 Fax: 846-5675 Email: info@athenaadvertising.com
 - **Patrick Murphy Executive Producer, KETC/Channel 9**
3655 Olive St. St. Louis, MO 63108 Voice: 314-512-9124 Email: pmurphy@ketc.org.
 - **Tom M Nolan Director, Loyola Academy**
3854 Washington Ave. St. Louis, MO 63108 Voice: 314-531-9091
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Awards, Community Service, and Professional Affiliations:

- Voted Outstanding Engineering School Staff Member by graduating class of 2000: Service Award & \$500 cash award.
- Nominated for the WU Gloria White outstanding Staff Award 1999
- Nominated for a national Tau Beta Pi award of excellence:
- Member of the St. Louis Artist Guild
- Co-founded the St. Louis Area Physics Teachers affiliate of the American Association of Physics Teachers edited and published monthly newsletter 1989 -1994.
- Volunteered time to disc jockey for high school youth groups TREND
- Volunteered computer-consulting time with elementary teachers in various Schools regarding computers, networking, and repairs.
- Produced Videos for churches and schools in South St. Louis County.
- Ham radio operator, KB0VD since 1996 technician class plus
- Faculty sponsor of student Radio station Washington University **KB0QEV**