

Donald S. Wilde

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CAREER GOAL

I help people become more productive with innovative products and services.

SKILLS AND CAPABILITIES

- Business Management & Profitability
- Successful Team Building & Leadership
- Marketing & Market Penetration Strategies
- Effective Offshore Team Management
- Clear Technical & Business Communication
- Effective Technical Sales Presentations
- Product, System, Software & Procedural Documentation including Diagrams
- Multi-level Distributed Hardware, Firmware & Software Architecture Deployment
- Product Manufacturability Analysis
- Analog, Power, Photonic and Digital Semiconductor Integration & Prototyping
- Programmable Logic Development
- Custom Electronics & Printed Circuits
- Hardware, Firmware & Logic Debugging & Emulation using Bondout, JTAG, FPGA, and Teradyne Wafer Probe technologies
- Network Infrastructure, Redundancy & Security Systems for "Software as a Service" (SaaS) Applications
- Systems and Application Development using Object-Oriented, Meta-Programming and Procedural Paradigms
- UNIX System Services (drivers, cron, kernel configuration & extension, TCP/IP, Sockets, SYSV SHM, Semaphores, Standards-Based Transaction Protocols)
- Real-Time ASM Firmware Development w/ Interrupt Handlers, Command Interpreters
- Application Servers, Site Templating and System Service Daemon Development
- Apache (custom C modules, CGI, mod_php, mod_rewrite, server & site configuration)
- Oracle, MySQL & PostgreSQL databases
- Web Site Integration (e-Commerce, ftp, e-mail, SSL, PDF generation, search engine optimization, log file analysis)
- S/W & F/W development in ASM, C/C++, Java, BASIC, Perl, TCL/expect, PHP4/5, Ruby, Smalltalk, lex/yacc, shell interpreter
- Enterprise Application Deployment in PHP, Java, J2EE, Spring, Hibernate and Jakarta

EMPLOYMENT HISTORY

2004 – PRESENT Software Engineer, **L&M Technologies** Albuquerque, New Mexico

L&M has hired me to do software development on-site at Sandia National Laboratories for the Microelectronics Development Laboratory and MESA MicroFab.

- Developed software and lead multi-departmental deployment teams for a Web-based Intranet data warehouse, analysis and visual presentation system for semiconductor test data
- Developing SECS/GEM Interface for Factory Floor Metrology Data Collection
- Built an advanced Equation Solver for HSPICE and Cadence SPECTRE simulator parameters
- Created an integrated multi-platform eCAD-tool shell environment launcher and configuration management tool now propagating through several Sandia divisions

2000 - PRESENT Chief Technology Officer, **Network Lynx** Rio Rancho, New Mexico

Network Lynx is a profitable Internet Services developer and infrastructure provider specializing in Candidate Referral Systems for the Human Resources industry leveraging Open Source software tools and databases for maximum capability, profit, and software investment protection.

- Led development & deployment of *WildHire*[™] vertical market Candidate Referral System package
- Took CPGjoblist.com to over a million hits per month, which is over 23,000 candidate visits
- Manage two 10-server web and redundant hot-spare database hosting co-location facilities
- Created and currently lead successful offshore applications programming team

1999 - 2004 Owner, **Silver Lynx** Rio Rancho, New Mexico

Silver Lynx began as an electronics design consultancy, and transitioned to Internet development.

- Developed *PostUPPa*[™] integrated Web Database and *Spider-Seeker*[™] technologies
- Developed numerous OS-level proprietary web integration software techniques
- Developed custom ASICs, PLDs, boards, firmware, and software for patent prototypes
- Mentorship of Rio Rancho and Albuquerque Public Schools high school students
- Created *Open ReSource Project* encouraging volunteering by programmers at APS middle schools

1998 - 1999 Senior Firmware Engineer, **Safe Zone Systems, Inc.** Albuquerque, New Mexico

I was the neural network specialist for a startup creating an innovative Hand-Held Concealed Weapons Detector. My duties included characterizing the problem space and the hardware, evaluating the complexity of the system, and developing utility programs in Visual C++ and various MS OLE tools. I used UNICA Pattern Recognition Workshop extensively for data profiling and neural net development.

1992 -1998 Integrator, Senior Firmware Engineer, **Soligen, Incorporated** Northridge, California

Soligen created Direct Shell Production Casting systems, an innovative way of making metal casting molds directly from 3D computer-aided design files. They are now in production mode.

- Designed hardware and firmware for three generations of leading-edge CAM system
- Developed translation routines for various CAD file types
- Developed and managed elaborate transaction-processing web site for order processing
- Managed large heterogeneous network of Novell, MS NT, HP, FreeBSD servers, and PCs
- Integrated and improved manufacturability of DSPC CAM systems
- Provided field support, usability data, and user interaction at multiple sites nationwide
- Developed and implemented Y2K Readiness and AIAG EDIF strategies

PUBLICATIONS

1998 – 2004 <http://www.DaemonNews.org>
“Corporate BSD: The Open API Initiative” Enterprise Systems in Open Source S/W
“Das Blinkenlights” Simple hardware integration using FreeBSD
“Review Daemon: BSD Sockets From A Multi-Language Perspective” Book Review
“The Open ReSource Project: Teaching Kids to Think For Themselves”

JUNE 1992 Embedded Systems Programming, "From Objects to Bits," Smalltalk as a data analyzer, interpreter and assembly-code generator for embedded controllers.

EDUCATION

- **Next Generation Economy Entrepreneurial Leadership Excelsior**
Ten-month Leadership and Business Mentorship program
- **Rio Rancho Chamber of Commerce Leadership Sandoval County**
Nine-month Leadership Training and Government Familiarization Program
- **University of Arizona, Graduate School of Systems and Industrial Engineering**
Emphasis on Electronics and Scientific Systems Interfacing
- **University of Arizona, Bachelor of Arts in Sociology, minor in Psychology**
Emphasis on Discrete Mathematics and Computer Science

PERSONAL INTERESTS

Education, personal development, railroads, and the history of technology and society