FRED J. KAUDEL, Ph. D.

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SUMMARY

Communications network engineer with over 10 years background and expertise in product development/testing (client-server, UI, networking, OOD, threading, C/C++/Java/scripting, build/test/release, multi-platform, CVS/VSS, logging/resolving bugs, customer support), systems analysis and standards. Major responsibilities include leadership, communication, problem analysis and working with customers/competitors. Special abilities in communicating/negotiating, linkage of standards to business strategy, and competitive analysis. Widely recognized in communications industry for leadership and contributing to standards.

Expertise in: product development/testing/marketing/sales, communication protocols and standards (TCP/IP, WAN/LAN; management, measurement and physical layer), network reliability, performance analysis and optimization, teletraffic engineering, distributed computing.

Experience in: management, many computer languages (including SQL), development of web-sites and customer relationship management.

CAREER PROGRESSION

Business/Product Development at Sprex 10/2002 – 3/2005

Speech recognition client-server product development/marketing. Lead development, including negotiating and closing sales. Extensive product (C, C++, Java, lex/yacc, Windows CE/XP, Linux) and web-site (PHP, HTML, Java) development and customer support. Consulting support.

Consultant at Frederick J. Kaudel Consulting 7/2002 – 10/2002

Support for telecommunications and speech application product marketing and development, including web-site development. Business plan development and presentation.

Senior Staff Engineer at Fluke Networks 1997 – 2002

Represented Fluke Networks in IETF, Frame Relay Forum (MPLS and Frame Relay Alliance), DSL Forum, ATM Forum, T1 (ATIS) and ITU standards bodies, promoting Fluke Networks and testable specifications. Linkage of standards work to business strategy. Communication of results and directions (internal web-site/archives/reports/summaries) of external work to product development teams, assisting in defining product requirements and customer meetings.

- Supported telecommunication standards for several product development teams.
- Improved product development plans and competitive analysis by developing and supporting internal communications of standards status, issues and competitive intelligence via internal web-site, emails and meetings.
- Took over and led several telecommunication standards working groups (in ATM Forum, DSL Forum, Frame Relay Forum and T1) to increase sales and awareness of Fluke Networks' testing products.
- Led and promoted eight testing specifications approved by the telecommunications industry, promoting Fluke Networks, testing and interoperability.
- Received three industry awards for chairing network survivability performance working group and developing seven international technical reports.

Manager of Future Network Performance department at Nortel Networks (was Bell-Northern Research) 1995 – 1997

- Managed a group of telecommunications network/product system analysts and relations with development groups and customers.
- Led T1A1.2 Working Group on Network Survivability Performance.
- Linked ATM Forum traffic management standards to product development.

Member of scientific staff at Bell-Northern Research

Systems engineering: performance analysis of telecommunications networks and products, close interactions with developers and customers, growing participation/leadership in T1 standards.

- Promoted to manager of future network performance department after sustained productivity, external recognition and career development.
- Developed and co-patented method of screening telecommunication signaling messages.
- Supervised/mentored students in systems engineering work.

Graduate Student at Carleton University, Ottawa

- Taught a graduate course on computer operating system design.
- Teaching assistant for several Systems and Computer Engineering courses.
- Taught a mini-course on Computer Graphics.

AWARDS

Nine telecommunication standards awards for leadership/contribution/commitment/dedication/ outstanding achievements/excellence, Fluke Corporation Peak Achievement Award, US Patent 677722 (with Doug MacDonald), NT/BNR major contribution award, NSERC Postgraduate Scholarship, Carleton Research Scholarship, Ontario Scholar

PUBLICATIONS

paper in ISSLS2002 (with Ericsson and Simpler Networks, on DSL interoperability), articles in Frame Relay Forum public newsletter, IEEE CQR 2001, U.S. patent, ITC14, Telesis, Globecom'91, ITC13, NCF'90, IEEE (Trans. on Software Engineering, JSAC), paper in ICC88, paper in Simuletter, article in On-Line; numerous contributions, baselines and technical reports in: ATM Forum, DSL Forum, Frame Relay Forum, and T1; **reviewer:** ITC, FTCS, ISS, IEEE (Telecommunications Network Management into the 21st Century, Transactions on Networking, and Journal on Parallel & Distributed Systems), Infocom97

ACTIVITIES AND INTERESTS

DSL interoperability presentation to CABA conference. 2001

Network survivability presentation to IEEE CQR 2001 conference. 2001

Network testing requirements presentation to Advanced ATM Integration conference. 1999

Ambassador presentation on testing to The ATM Forum in Bangkok, Thailand meeting. 1999

ADSL loop qualification presentation to DSL Forum summit in Paris, France. 1999

ADSL loop qualification presentation to IIR's 4th Capitalizing On Copper conference. 1998

Session chair for 1996 IEEE Symposium on Planning and Design of Broadband Networks; on organizing committee for 1996 Comforum on Network Reliability. 1994 – 1996

Finance chair for ACM SIGMETRICS 95/IFIP Performance 95. 1994 – 1995

Organizer/co-chair of session on network survivability for ICC/Supercom'92.

Member of program committee/session chair at FTCS-21 conference.

Invited panel speaker on "System level CAD - new frontier" at Canadian Conference on VLSI.

Presented seminar at Performance '84 conference in Paris, France.

EDUCATION

Carleton University, Department of Systems and Computer Engineering: Ph.D. (Electrical Engineering), Ottawa, Canada

University of Toronto, Department of Engineering Science (Electrical Option): B.A.Sc., Toronto, Canada

Additional capabilities: French and German (some Spanish)