
SKILL SUMMARY

Communication skills bridge senior management and technologists while summarizing essential points. Uses facilitation techniques to drive consensus and identify root issues. Offers technical depth and breadth towards researching technology for best-fit solutions. New view perspectives to provide innovative approaches to difficult technical problems.

EXPERTISE

Senior-Level Technology Expert/Architect

Corporate Alignment

- Gathers and assess the corporate impact of technology decisions.
- Perceives the steps needed to integrate complicated systems.
- Researches and summarize industry trends and make recommendations.
- Identifies & shows relationships between usability, accessibility, security, and extensibility.

Lead Research/Feasibility Efforts

- Lead research team and created virtual teaming that included graded solutions for corporate instant messaging, distance collaboration/learning, and communities of practice.
- Pioneered efforts to push corporate information to palmtops, PalmOS and PocketPC.
- Consulted and advised team in knowledge management and Active Directory construction.
- Headed teams to build an e-commerce web interface and to interface PDAs and PeopleSoft.
- Saved IT millions by recommending workable solutions and contracts.

Instructor/Mentor

- Assisted groups/individuals in evaluating and selecting best-fit technologies.
- Certified instructor in Object Technology, Core Java, C++, and requirements gathering.
- Taught operating systems, languages, and expert systems.
- Adjunct lecturer for OSU.

Consensus Builder/Negotiator

- Gather and build consensus with several people.
- Drive requirements for acceptable solutions.
- Collect and align corporate needs with product offerings.
- Negotiate license fees & support.

Corporate Policies

- Design of wireless strategy and policy.
- Wrote configuration management contingency plans.

Mobile, Wireless and Embedded Systems

Wireless Technology

- Expert in wireless networks (PAN/LAN/WAN).
- Integrate with infrastructure and select best-fit technology.
- Identify of security issues, LNotes/Domino interfacing, and corporate deployment.
- Developed tools for DataTAC and Mobitex networks (BlackBerry).

Embedded Systems Programming

- PDA development like Palm, BlackBerry, and PocketPC.
- Microcontroller programming (e.g., 8052).
- High-level (Visual Basic) to performance-level (C++) to low level (assembler).

Wireless Programming

- Wrote programs interfacing with Mobitex (cellphone) and DataTAC (paging) networks.

Security Programming

Mobile/Wireless Issues

- Led policy setting for device and usage for AEP corporate.
- Expert consultant in mobile/wireless security issues.

B2B Credit Card

- Designed security policy/procedures and program architecture.
- Led team to implement business-to-business money transfer system.

Internet Authentication

- Designed product and led team to extend insurance information to clients.
- Used split authentication for client validation using system that drastically reduced fraud.
- Included lockout procedures for infiltration circumvention.

Published Author

Linux Socket Programming (SAMS/Addison-Wesley) – The experienced professional can use this book to write production-ready programs for the Internet and intranet (TCP/IP).

Several Internet articles (InformIT.com) – Articles on security, Internet Protocols, peer-to-peer.

IPv6 Programming – A special edition of the *Linux Socket Programming* that shows the professional the techniques needed to write programs with the greatest longevity, using the next generation of the Internet Protocol (IPv6). [completed, on hold]

Special Achievements

Corporate PDA Applications

- Implemented and supported Mobile Time-Accounting (MTA) tool for PalmOS/PocketPC.
- Designed MTA interface to connection between Remedy and PeopleSoft.
- Created an employee information reference tool using Lotus Domino documents.
- Created a tool that displays internally managed technical notes and tips.
- Implemented tools to create Palm-ready databases (PDBs) from MIME formatted data.

Media General Stocks CD

- Wrote special database and query subsystem for securities CDROM.
- Guaranteed minimal search times by reducing media seeks down to one seek per comparison.
- Designed complete application with GUI interface.

Virtual Teaming Expert

- Collected, reviewed, and piloted several virtual teaming tools (distributed teams).
- Gathered/prioritized internal requirements
- Selected and negotiated contracts for product.

Expert Systems

- Wrote “heuristic pegboard” for remote network access setups.
- Created expert system for operating system debugging.
- Designed and wrote expert system shell.
- Programmed tool that generated SGML DTDs from sample data.

Patented Fuzzy Logic System

- Theorized and created method for determining a printer language using a sample of data.
- Innovative design yielded software patent #5,392,419.
- Prosecuted patent infringement as an expert witness.

Media/Data Translation

- Migrated legacy DB2 data to new schema using Java ODBC.
- Transferred SGML documents to Oracle databases.
- Created an SGML DTD generator.
- Converted USMARK to/from UNIMARK library formats.

EDUCATION

Computer Science PhD (TBD), University of Utah.

Computer Science Masters of Science (1990), Brigham Young University.

Computer Science Bachelors of Science (1988), Brigham Young University.

WORK CHRONOLOGY

National Product Sales (NPS)	Salt Lake City, Utah	12/03 – 8/04
American Electric Power (AEP)	Columbus, Ohio	8/00 – 5/03
Nationwide Enterprise (NI, NF)	Columbus, Ohio	3/99 – 8/00
Carolla Development Inc.	Columbus, Ohio	9/97 – 12/98
Advanced Programming Resources	Columbus, Ohio	10/95 – 2/99
Metatec Corp.	Columbus, Ohio	1/94 – 10/95
Novell, Inc.	Provo, Utah	8/93 – 10/93 (layoff)
Hewlett Packard Co.	Boise, Idaho	5/89 – 8/93
Intelligent Algorithmic Solutions	(sole-proprietor consulting)	1/85 – present