Network Administrator Network Administrator Network Administrator Bemidji, MN Adjunct Online Faculty: Computer Science / Information Technology / Computer Information Systems Work Experience Network Administrator Clearbrook-Gonvick School District - Clearbrook, MN August 1998 to 2013 Practitioner Experience: Network Administrator Primary Responsibilities   Wireless ? Wireless networking ? Wireless network design ? Study of Faraday Cages impact on network ? Study of wireless vs. connected (speed, data reliability) ? Comparison of WAP's ? Purchasing, installation & maintenance of WAP for entire district   Networking   ? Fiber and Copper line installation, maintenance & trouble-shooting ? Network design for 2 buildings ? Router programming, configuration & trouble-shooting ? Switch configuration, installation, maintenance & trouble-shooting ? Found error in network in 3rd building: resolved with addition of relay closet. Network Security ? IP securing of network ? Installation and configuration of network firewall ? Cisco Switches experience   ? Cisco Pix experience   ? Wireshark   ? VPN: set up & setting configuration   Preventative networking: ? minimal downtime ? Zero server downtime (internal, allowing for electrical outages) ? Zero server crashes in15 years   Servers & Virtual Servers: ? Responsible for: server bank (8 servers) ? Raid 5 ? Microsoft Virtual Servers (6 servers) ? HP hardware familiarity ? Mirroring experience ? Server-to-server back-ups ? Tape back-ups (3 generation) ? Database server management ? Server caching ? Program configuration ? Active directory configuration & maintenance ? Mail server set-up, maintenance, upgrades ? Webmaster ? Configuration of automatic updates   NAS & SAN device familiarity Practitioner Experience: IT Investigations   Network Security: Threat Resolutions   ? Wireshark data collector on network (hacking investigation) ? Determined bomb threat origination (located specific printer) ? Traced attempted hacking of secure computer ? Resolved global blacklisting ? Troubleshooting of 3-phase electric and network interference ? Malware prevention, removal and containment experience Data Collection: ? Annual District Technology Survey * Investigation and resolution of IT issues * Determination of IT vision * Feedback for IT annual budget planning   Study of power/UPS: results for district/phone company: ? All district owned servers were protected from power irregularities: * Result: no district servers lost. ? Phone company did not study or implement suggested UPS

solutions: * Result for phone company: loss of 3 servers.   Database comparison study: ? database feedback phase ? database analysis phase ? new database selected ? data transfer to new system Practitioner Experience: Network Design   Upgraded and installed networking at two district sites   Designed network for new K-12 school   Resolved network attenuation issues Grants: 21st Century   Local grants (GVTEL, private persons, electric company)   IT consultant for district grant writers.   Annual IT RFP's   Responsible for District Technology Bidding   IT Purchasing ($75,000/year)   Custom technology equipment purchase, maintenance, upgrades Clock-in/ Employee software installation, configuration and maintenance.   Server software installation, maintenance, upgrades   Active Directory, Group Policy   Mapping & User Rights (set-up, maintenance, customization)   Printer and Copy machine network mapping   Fax machine networking Practitioner Experience: District Writing   District Technology Policies manual   Disaster Recovery district manual   Technology Seminars (in-house): ? Instructions for staff use and care of district equiment Practitioner Experience: Software Development & Maintenance   Webmaster   Website development: design & built district website, maintenance of website   Instruction of website development classes.   Food Program software   Configuration, trouble-shooting & maintenance   Network mapping   Development of custom reports   Reading database maintenance, troubleshooting, configuration   Testing database maintenance, troubleshooting, configuration Practitioner Experience: Testing Coordinator   Configure labs and monitor testing   Delivery and trouble-shooting of electronic testing Practitioner Experience: Clubs/Mentor   FRC: Competition Robotics Mentor   FIRST: Competition Robotics Mentor   BEST: Competition Robotics Mentor   VEX: Competition Robotics Mentor   Technology Club: Website Development Practitioner Experience: Robotics Prototype Mentor   Constructed SeaPerch prototype (mentor)   RiverWatch presentor in NW Region Practitioner Experience: Instruction   Community Education Instruction ? General Technology ? Rocketry ? Hot air balloons ? Digital Photography ? Multimedia: making and working with videos   21st Century Instruction ? Technology ? STEM ? Robotics ? Scratch ? Alice ? Robot C Practitioner Experience: Staff instruction   Technology classes for staff   ISTE integration   K-12 curriculum mapping   Hardware basics   STEM integration (curriculum

development) Practitioner Experience: Conferences   TIES (bi-annual attendee) ? Virtual servers ? WAP ? Network Security ? K-12 Networking Issues   Brainstorm (attendee) ? 3D Printing ? Malware ? Network Security ? WAP   Virtual Servers   Practitioner Experience: Committees ? District IT coordinator ? District IT committee member ? Regional IT coordinator meeting attendee Database Administrator, Custom Software Design and Training Northwest Technical College - Bemidji, MN 1996 to 1998 Practitioner Experience: Programmer   Developed custom software (version 1): Grade Entry Software Development   Developed custom software (version 2): Grade Entry Software, upgraded to web version Practitioner Experience: Instruction   Trained staff of five colleges on Grade Entry Software   Practitioner Experience: Database Administrator   Database servers (general) ? Installation ? Upgrades ? Back-up ? Automatic updates ? Virus protection ? Maintenance NTC database: Programming Experience ? Oracle ? Access ? Visual Basic ? C++ ? SQL   Practitioner Experience: Distance Education instructor   Part-time   Microsoft Office Weekend instructor   Overflow classes   Consulting Blackduck, MN Consultant for Lighting Strike Practitioner Experience: Consultant   Blackduck Telephone Company   Lightning Strike Consultant Database Administrator, Custom Software Design and Training Nortech Systems, Inc - Bemidji, MN 1994 to 1995 Practitioner Experience: IT   Windows servers   Cabling: network enlargement Software and Hardware: maintenance and troubleshooting Practitioner Experience: Programmer Custom inventory program design, and subsequent training, lifecycle, and maintenance.   Oracle PowerBuilder   SQL   Research   Robotics in Technology: Perceptions of Professional and Educational Skills Learning Opportunities Made Available through K-12 Robotics Programming (peer-reviewed, published, 5 citations)   Research, currently in progress: ? Extension of published Robotics in Technology study, addition of mentorship development. (Independent)   ? Creative Works: development for business (co-operative research: IT/Business)   ? Ergonomics in the workplace (co-operative research: IT/ Health Sciences)   Certification Equivalencies: IT Work Experience   CISCO: Networking (2 levels)   Google Analytics Certification   Microsoft Servers: Experience based qualifications   IEEE member   IEEE WIE member   Service Experiences Service as an overload instructor: UMC, 4 weeks   Grant writing: several individually authored small

grants and participation on technology portions of larger, team written grants   Robotics mentor: Public School, Community Ed, 4-H ? FLL FIRST, Sea Perch, VEX, BEST, FRC FIRST, after school, community ed.   Presenter: SeaPerch at Northwest Region Science Conference   Northwest Service Co-op: district technology coordinator member   Technology Committee: Red Lake Schools   Technology Committee: Clearbrook-Gonvick Schools   Technology Task Force member   TIES conference attendee   Knowledge Bowl Jr. & Sr. High Coach   PERSONAL & VOLUNTEER Personal Global Experiences Humanitarian: Volunteer Experience   South America: Costa Rica (Orphanage), Brazil (building)   Caribbean: Haiti (building), Dominican Republic (building)   Europe: Poland (building), Austria (Mental Health Clinic), Sweden (camp improvements), Ukraine (youth, school supplies)   North America: Galveston, Texas (hurricane clean up), Grand Forks (sandbagging), Minnesota -Feed My Starving Children (food packaging), Mexico (food, clothes, building) Education CS in Computer Science Ponemah School - Ponemah, MN August 2008 to December 2015 PhD in includes Masters Capella University March 2013 Master's of Science in Education Bemidji State University 2006 Masters in Topic University of Minnesota - Crookston, MN 1998 BS in Education Bemidji State University 1992 Skills Networking, Vmware, Active Directory, Windows, Technical Support

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