

SKILLS SUMMARY

- *Network Administration*
 - Extensive experience with PC operating systems from DOS to Windows Vista.
 - Administer and trouble-shoot full range of office applications including MS Office, AutoCAD, accounting and maintenance software.
 - Administration of all network tasks including File, Web, and E-mail Servers and all Windows workstations.
 - Maintain drawings and documentation for all communications related items. Installed and configured office phone system. Designed office network & phone system infrastructures.
 - Setup corporate LAN to include DNS, DHCP, WINS, Web Server, POP3 Email Server, Firewall, FTP Site, NAT and VPN to create a WAN. Have used Cisco routers to setup a WAN with a T1. Designed and built physical networks, i.e. switches, routers, cabling, etc.
 - Past experience with Novell Netware, several Linux distributions, and UNIX.
 - Build computer systems, workstation and servers, from individual computer components.
 - Design and implement corporate disaster recovery plan and security assessment. Design and maintain data backup/recovery systems.
 - Implementation of RAID drives and Wi-Fi networks. Experience with Voice over IP (VoIP).
- *Instrumentation & Controls*
 - Design electrical, control and communications systems.
 - Specify, install & calibrate instrumentation.
 - Control panel design using AutoCAD v12 thru 2008. Also 3-D drafting and design.
 - Create Control Strategies, Communications Block Diagrams, Piping & Instrumentation Diagrams (P&ID) and Loop Diagrams.
 - Programming of PLC's, HMI's, & PC's.
 - Programming Languages: Ladder Logic, Function Block Programming (IEC 61131-3), Structured Text, Microsoft Visual Basic (VB and VBA), C, C⁺⁺, Scripting Languages, XHTML, Ruby on Rails (Web app framework).
 - Database: ODBC, SQL, MS Access, MySQL, SQLite3
 - Experienced with up to Cat6, multi-mode and single-mode fiber optics, phone systems, serial & Ethernet radio systems. Experience with security card access systems and CCTV.
- *Project Management*
 - Working with clients, planning, budget and costing, manpower loading and coordination of team members.
 - Creating submittal documents and documentation of work complete.
 - Schedule and conduct project meetings as well as technical training sessions.

EDUCATION AND SPECIAL TRAINING

- Salt Lake Community College – A.S. in Computer Science (expected Dec. 08)
- Utah Valley State College – computer science coursework, 21.0 credit hours
- Brigham Young University – general coursework; 29.5 credit hours
- G.E. Proficiency product training including Historian, Portal & iFIX 5.0
- SQL Database, Trending and Reporting for HMI product Wonderware
- AutoCAD Courses I, II and 3D Course Completion Certificates
- Certified by Utah Division of Drinking Water as a Water Specialist - Treatment Grade 4
- A+ Certification Course

EXPERIENCE

Sunrise Engineering – 2003 - Present

■ *Project Manager*

Manage time, money and personnel on multiple projects at once. Work with clients, contractors and staff to assure job completed correctly, on-time and on budget. Track and report project status. Create submittals and O&M manuals. Review and approve submittals, schematics, P&ID's and construction drawings. Estimate and bid new projects. Manage employees.

■ *Instrumentation & Controls Manager*

Program SCADA & Telemetry systems. Program PLC control logic, using systems like Modicon, Allen Bradley, G.E. and SCADAPack. Program Human Machine Interfaces (HMI), using software like G.E. Proficy HMI - iFIX and Wonderware InTouch. Design communication systems using copper, fiber optics, radio and satellite. Work with radio systems including GE MDS, DataRadio, and Freewave. Experienced in RS-485, RS-422, RS-232, Ethernet, DF1, Data Highway Plus (DH+), Modbus Plus, Modbus/TCP, Modbus RTU and other serial protocols. Install and test communications. Perform plant start-up. Work with clients to determine needs and how to best accomplish their goals. Train clients and give technical support.

■ *Electrical Engineering Technician Level IV*

Electrical design of water and waste water projects. Instrumentation and control wiring design. Specify control instrumentation. Installation and calibration of instrumentation. Create Control Strategies, Communications Block Diagrams, Piping & Instrumentation Diagrams (P&ID) and Loop Diagrams. Design 'Master Plans' for communications and controls.

Risun Technologies – 1996 - 2003

■ *Human Machine Interface Designer/Programmer (SCADA)*

■ *Network Administrator*

■ *Electrical Designer/CAD*

■ *Project Manager*

Roberts & Schaefer Co. – 1994 – 1996

■ *Electrical Computer Aided Drafting and Design (CADD)*

■ *CADD Committee Member & Technical Advisor*

■ *Custom Applications Programmer*

PUBLICATIONS AND PROFESSIONAL ASSOCIATIONS

- The Sunrise Letter, Summer 2003, SCADA - Take Control of Your Future
- The Sunrise Letter, Fall 2003, SCADA can help with new EPA rules
- Rural Water Association of Utah Annual Conference 2004, What can SCADA do for you?
- Top 10 Finalist in the G.E. Fanuc 2006 'HMI Screen Shot' Contest
- Member of ISA – The Instrumentation, Systems, and Automation Society