



Ryan Pack, P.E. | Principal

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Mr. Pack has experience with many components of SCADA and controls. He has worked with controls as simple as relay logic and PID loop controllers thru complex radio controlled SCADA systems. He has worked with many different programmable logic controllers and Operator interfaces including Allen Bradley, Control Mi-crosystems, GE, Koyo, Modicon, Siemens, and others. He has utilized many software packages for human ma-chine interface including Allen Bradley, GE Proficy (Intellution), Wonderware, and National Instruments Lookout. He has designed and installed new systems, replaced old systems, and expanded existing control systems. Mr. Pack has worked with many communications systems including radio, fiberoptics, ethernet, serial, and propri-etary communications systems such as controlnet and profibus. He has conducted numerous path studies, for both licensed and non-licensed radio communications systems. He has designed and installed radio telemetry systems with over 50 remote sites.

Project Experience

Lost Creek Project, Summit County, UT. Electrical/Controls Engineer

Mr. Pack worked on this project in all as-pects from the shallow wells to the treatment facility. Ryan designed Mountain Regional Water's SCADA system, and has continued working on the system since original installation. He oversaw the programming and startup of the existing Lost Creek Canyon control system, and is extremely familiar with its layout, configuration, and appli-cations. Ryan also worked on the design for the motor controls, power distribution, lighting, and instrumentation for this system.

Mountain Regional Water SCADA, Summit County, UT. Controls Engineer

SKM designed a new SCADA system for the district that included all of the water distribution, raw water collection, and treatment. He worked with thewater district to designed a new SCADA system that included all of the water distribution, raw water collection, and treatment. He worked with the water district to meet their monitoring, reporting, and control needs. Ryan coordinated the installation with their staff, and programmed much of the system. This included reporting, moni-toring, alarming, and full control of the system. He continues to maintain the system with SKM's staff of service personnel.

Idaho Falls Water SCADA, Idaho Falls, ID. Controls Engineer

SKM designed a backup power generation system for the water department, as well as the control interface between the Generator and the SCADA system. Mr. Pack is currently maintaining their water system SCADA and controls, and is under contract to perform program-ming on their upcoming additions.

Santaquin SCADA, Santaquin, UT. Controls Engineer

SKM designed a new SCADA system for the city that included all of the water distribution, wastewater collection, and wastewater treatment facility. Mr. Pack worked with the city to meet their monitoring and control needs, and provide a system that would work for them. He co-ordinated the installation with local trades, and aided in the programming of the system. This included reporting, monitoring, alarming, and full system control.

Summit Park Boosters, Summit County, UT. Electrical/Controls Engineer

SKM worked on the electrical and controls design for the two pump stations, and flow control station required for this project. Mr. Pack designed the motor controls, instrumentation, and controls required to operate the facilities as required by Mountain Regional Water.

Bountiful City Water, Bountiful, UT. Electrical/Controls Engineer

SKM has worked on numerous projects for the City of Bountiful. Mr. Pack has designed numerous motor control and distribution systems for wells and boost-ers for the city. He has worked with the department head to incorporate complete system control from the motor control enclosure for each of these sites.

Education

BS Electrical Engineering
University of Utah, 2002
MBA
Weber State University, 2005

Registration

Professional Engineer:
UT, ID, NV, WY, CO, HI, NM

Work Experience

18 Years

Specialties

Electrical and Controls
Design
Construction Oversight
Control Systems
Telemetry and SCADA Systems
Design
Control Testing
Programming
Startup and Maintenance Contracts

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Project Experience (continued)

Davis and Weber Counties Canal SCADA, Weber County, UT. Controls Engineer

SKM is currently working on installation of a new SCADA monitoring system for the canal company. This includes the monitoring of all canal discharge flows, as well as monitoring of the primary canal flow. Ryan designed the radio network, control system, and aided the district in coordinating installation of required hardware.

East Zion SCADA, East Zion SSD, UT. Electrical/Controls Engineer.

Ryan Designed the Electrical, Controls, and SCADA system for this community's water system. This included phase conversion for the booster pumps, tank level monitoring, well control and communications between the sites. Ryan designed all of the motor controls and instrumentation for this project.
