**JOHNNA J. WILSON**

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**Sr. Electrical and Control Engineer / Sr. Engineering Architect / Project Manager**

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Results driven Senior Engineer and Project Manager specializing in automation, robotics, process control, power distribution and systems engineering with over 20 years experience in large scale manufacturing environments. Strong technical background and innovative solution visionary able to think outside of the box. Dedicated to providing successful solutions that satisfy an organization’s goals for productive growth. Proven record of excellence, dedication and growth.

**Professional Career Progression**

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**12/2016 – Current -- Aleris – Sr. Electrical Engineer**

Control and electrical engineer architect for multiple plant systems and controls implementations. Design and implement turnkey control systems for manufacturing systems.

* Electrical Engineering
* Engineering, design, implementation and troubleshooting
* Large Scale Power Distribution Systems
* Control Design, implementation and troubleshooting
* PIDs, Loop Tuning, AC/DC Drives
* Furnace and Casting Systems
* PLC programming and System Design
* HMI design and implementation
* Safety systems
* Multiple platform programming
* Vision and measurement systems
* Autocad, drafting and schematic drawing
* Project management
* Management of electrical and mechanical hourly employees

**09/2013 – 12/2016 -- US Steel Fairfield Works – Sr. Control Engineer Architect / Sr. Electrical Engineer**

Control and electrical engineer architect for multiple plant systems and controls implementations. Design and implement turnkey control systems for manufacturing systems.

* Electrical Engineering
* Robotic Engineering, design, implementation and troubleshooting
* Large Scale Power Distribution Systems
* DCS systems, installation and support
* CNC integration and support
* Control Design, implementation and troubleshooting
* PIDs, Loop Tuning, AC/DC Drives
* Automation design
* PLCs (AB, ABB, Siemens, Fanuc, Omron)
* Panelview HMI design and implementation
* Safety systems
* Foxboro, Honeywell, GE Fanuc
* Wonderware, Archestra, Rockwell
* Vision and measurement systems
* Autocad, PI Process Book, MS Suite
* Technical project management on projects of 50 million dollars and above
* Management of multiple discipline teams

**02/2013 – 07/2013 SiO2 Medical Products – Sr. Automation Engineer/Sr. Project**

**Manager**

Sr. Automation Engineer for startup facility. Technical project

manager and engineer for multiple automation implementations.

Design equipment for manufacturing systems. Work with multiple project teams to assure smooth startup.

* Electrical Engineering manager
* Plant automation design and installation
* Vision Systems design and installation
* Robotics design, installation and maintenance
* Controls Design
* Troubleshooting and maintenance of plant production systems
* Project management of multiple startup projects
* Direct and manage cross fuctional teams
* Automation design
* PLCs
* Wonderware, RS Logix
* Autocad, ProE, Solidworks
* Design and implementation of new equipment and software
* SQL Database Administration

**05/2012 – 12/2012 BASF – Regional Project Manager/Sr. Electrical and Controls Engineer (contract)**

Technical project manager for multiple facilities. Design

implementation and troubleshooting of multiple plant automation

and control systems. Assist multiple facilities as a Sr. Electrical Eng.

* Design and implementation of new equipment and software
* Plant automation design
* Vision Systems
* Robotics design, installation and maintenance
* Plant Safety Systems
* Controls Design
* Project management of multiple projects over 1m
* Direct and manage multiple contractors
* Automation and software design
* Electrical Engineering manager
* Allen Bradley and Siemens PLCs
* AC/DC Drives, Loop Tuning, Servos
* Wonderware, RS Logix, Simatic
* Autocad, ProE, Solidworks

**06/2011 – 5/2012 USN/Philadelphia Ship Yards – Project Mgr/Senior Automation and Control Engineer (contract)**

Design and implement control systems and automation. PLC systems

design, implementation and troubleshooting.

Manage multiple site contractors.

Design new equipment layouts for naval ship automation and

control systems. Implement lean manufacturing

standards and optimize manufacturing standards.

* Design and implementation of new equipment and software
* Controls Design
* Vision Systems
* Project management
* Staff management
* Allen Bradley and Siemens PLCs
* HMI Design
* AC/DC drives, PIDs, loop tuning
* Government Security Clearance

**9/2010 – 5/2011 Dupont, Parlin, NJ – Automation and Control Engineer/Project Mgr**

**(contract)**

Install, troubleshoot and support of PLC systems for multiple

facilities. Design new equipment and controls as per customers

needs and specifications. Project manager for multiple capitol site

projects.

* Provide custom programming, troubleshooting and automation

engineering for large scale plant projects

* Allen Bradley, Siemens, Rockwell, Wonderware
* Vision Systems
* Robotics design, installation and maintenance
* Drive and Servo systems, loop tuning
* Server and Network Support
* Work directly with customer to provide system functionality for custom manufacturing environment.
* Manage capitol projects and contracting personnel.
* Upgrade, troubleshoot and manage control systems for multiple businesses at the site location.
* Active member of Automation and Process Control Center of Competency, Rockwell Teams
* Work on call basis to support 24/7 operating facility
* Homeland Security Certified

**01/2007 – 07/2010 Private Systems Consulting, Minneapolis, MN – Senior Project**

**Manager/Automation and Controls Engineer**

Manage large scale projects for clients including all engineering

and IT designs, installations, implementations and training.

* Custom design engineering projects for large manufacturing environments for multiple customers (3M Corp, Target, Katolite, MTU as examples)
* Installation, troubleshooting, and management of custom systems
* Developing customer specifications into fully integrated systems
* Project Management of large scale engineering and IT projects
* Custom panel/cabinet design and fabrication
* AC/DC drives, PIDs, loop tuning
* Programming, installation and troubleshooting experience of Allen Bradley, Siemens and other brands of PLCs
* Custom design and implementation of operating systems, databases and enterprise-wide applications
* Robotics design, installation and maintenance
* Vision systems
* Windows, Exchange Server 2003/2007, IIS, Clustered Servers, AIX, SQL, TSQL, Citrix XenApp, Unix, Linux server platforms experience
* Design skills for developing schematics and electrical layouts
* **Experience in HMI/SCADA programming using various HMI packages such as Rockwell, Intellution, Cimplicity,** VersaView, Modicon **and Wonderware**
* Proficient with RSLogix5/500/5000, RSLinx, RSView, RSNetworx for DeviceNET, ControlNET,
* Troubleshooting of large and complex controls systems, networks and applications
* 15+ years of production floor experience including Lean Manufacturing Principles
* AutoCad, ProE, VB, Java, C++, Perl experience
* SAN, NAS, and Network Administration
* Custom ADRP, POF, and MOP analysis and documentation

**4/1998 – 1/2007 EDS/General Motors, Roanoke, IN - Systems Engineer/Project**

**Manager/Sr. Automation and Controls Engineer**

Provided engineering and IT design, implementation and support for all

phases of the production process. Production floor support working hands on with all equipment. Design custom applications and systems as per customer request and requirements.

* Project manager for multiple plant projects (software and hardware)
* Systems Engineer for multiple production systems, PLC and DCS programming, implementations and troubleshooting
* Robotics design, installation and maintenance
* Windows, Exchange Server 2003/2007, IIS, Clustered Servers, AIX, SQL, TSQL, Citrix, Linux and Unix server platforms experience
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* Installation, Upgrades and Troubleshooting of large and complex servers, load balancers, networks and applications
* Crystal, VERITAS, VMware, BMC, Cimplicity, AutoCad, Pro/E, SCADA, Rockwell, Hummingbird, SMS, Oracle, Novell, Active Directory, LDAP, VPN, TCP/IP networking, Cisco, Java, Perl, C++
* Systems Security Administrator
* SAN and NAS Administration
* Administering Microsoft Active Directory and Group Policies.
* Change Management practices
* Experience with the ability to program Allen Bradley PLC’s, Controls Logix, RS Logix, etc. HMI's and MMI's and some Siemens PLC’s.
* AC/DC drives, PIDs, loop tuning
* Experience in design of user interface screens using Wonderware InTouch and Intellution iFix.
* Design skills for developing schematics and electrical layouts
* **Experience in HMI/SCADA programming using various HMI packages such as Rockwell Software, Intellution,** VersaView, Modicon **and Wonderware**
* Proficient with RSLogix5/500/5000, RSLinx, RSView, RSNetworx for DeviceNET, ControlNET, ControlLogix
* Enhance existing PLC programs (structured text and ladder logic), components (CPU back planes, I/O boards, counters, modules, and devices), and communications modules (Ethernet) as required to deliver operationally-ready technology solutions
* Coordinate and execute design and programming of PLC, HMI, VFD projects from hardware design, software integration through construction start-up.
* Monitor performance and analyze statistics to identify and resolve system problems
* Analyze performance problems and recommend solutions to enhance functionality, reliability, and/or usability. Apply metrics to monitor performance and measure key project criteria.
* ACF2 Systems Administrator for multiple sites.
* Develop strong working relationship with corporate engineers and assist in the scope, design and implementation of projects.
* Member of the North America Disaster Recovery Team
* ISO, ITIL, SAP, Stellent experience.
* Blueprint and electrical schematic reading, excellent written, verbal and problem solving skills.
* Develop and write custom ADRPs, MOPs and POFs.

**3/1997–4/1998 Farrow and Associates, San Francisco, CA - Network Communications**

**Manager**

Lead manager for network communication department. Directed

technical staff, recorded and reported all metrics. Worked as high

level support for region.

* Designed and installed custom networks for specific client

business needs.

* Managed staff of 21 network engineers and consultants
* Worked directly with customers on an on call basis 24/7.

**6/1992–3/1997 Computer Concepts, Birmingham, AL - Senior Service Technician**

* Designed custom networks and systems for customers.
* Managed a service staff of 12 service technicians
* Performed site evaluations and disaster recovery plans as needed.

**Education**

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**Muscle Shoals St. Community College** Tuscumbia, AL

* AD - Computer/Electronic Technology
* Graduated with honors in top 5% of class

**Auburn University** Auburn AL

* BS - Electrical Engineering / Computer Sciences
* Graduated with honors in top 5% of class

**PMP Certification**

**Six Sigma Black Belt Certification**