

PROFESSIONAL EXPERIENCE

Valspec, Royersford, PA

July 2020 - Present

Sr. Validation Engineer

- Develop and execute Installation and Operational Qualification Protocols to functionally test hardware and software on DeltaV DCS platform
- Executed Installation and Operational Qualification (IOQ) protocols utilizing Kneat and Microfocus Application Lifecycle Management (ALM)
- P&ID Walkdowns and Panel drawing verification
- Develop Software Factory Acceptance Tests (SFATs) for DeltaV Control Modules, Equipment Modules, Phase Classes, and Recipes utilizing both Functional Requirement Specifications (FRS) and Software Detailed Design Specifications (SDDS)
- Added functionality to web-based batch analytics software using .NET, SQL, and Angular frameworks

Yokogawa USA, Sugar Land, TX

Feb 2018 – July 2020

Integrated Systems Engineer II

- Quoting and Design of Industrial Control Systems (HMI, PLC, SCADA, AutoCAD)
- Project management of Test and Measurement Control systems (Nuclear, Commercial Refrigeration, Pharmaceutical)

Sequence QCS, Social Circle, GA (client site)

Oct 2016 – Feb 2018

Project Engineer II

- Develop Installation and Operational Qualification Protocols to functionally test hardware and software on DeltaV DCS platform
- Functional Specification development on Siemens MES/EBM
- Software/Hardware validation of pharmaceutical batch process
- Shakedown/Start-up commissioning for various types of equipment (Buffer vessels, CIP skids, Chromatography, Ultrafiltration/Diafiltration operated by PLC and DCS platforms)
- CIP Cleaning validation (Documentation with PI DataLink and PI Processbook)
- Validation testing on DeltaV and Siemens EBM (Electric Batch Management) systems.

Novaspect, Chicago, IL

Oct 2015 – Oct 2016

Application Engineer

- SQL Development and Administration
- DeltaV DCS UI Development and testing
- Development and maintenance of technical documentation
- Syncade DeltaV Logbooks and DeltaV Reporter implementations
- Custom Excel reporting for DeltaV
- OPC and SQL triggering and reporting
- Created custom interface software for DeltaV to automatically generate chemical transport bill of lading

Iatric Systems, Atlanta, GA

Aug 2012 – Oct 2015

Software Developer

- SQL Development and Administration
- Medical Records Software design and agile development (.NET, VBScript, SQL Server, Crystal Reports, Scrum, TortoiseSVN, Linux)
- Remote system support and commissioning
- Development and maintenance of technical documentation

Lonza/Arch Chemicals, Conley, GA

July 2007 – Aug 2012

Project Engineer

- Develop, maintain, and manage an S88 compliant HMI batch system ("Treat Right") for chemical treatment plants using iFIX, GE RX3i platforms, WonderWare SCADA, various OPC servers, SQL, PostgreSQL, and Crystal Reports
- Provide engineering support internationally to chemical plants and supervise plant startups within North America
- Design and commission the control system for the first automated pentachlorophenol wood boultonizing system in North America
- Create and implement a Java ETL application that pulls control system production information from a Windows-based PostgreSQL database and populates AS/400 database tables allowing a control system to be installed to directly replace a competitor's
- Draft electrical drawings in AutoCAD

Speed Check Conveyor, Decatur, GA

Mar 2005 – July 2007

Electrical Engineer

- Develop, maintain, and manage modern material handling systems using Mitsubishi PLC's, Phoenix Contact's Think & Do, and Optilogic RTU's
- Supervise electrical installation of automation equipment at client locations throughout North America
- Manage UL 508A listed industrial electrical control panel shop
- MES report generation with Crystal Reports
- Draft electrical drawings in AutoCAD

TRAINING AND CERTIFICATIONS

DeltaV Implementation - February 2016

DeltaV Systems Batch Implementation - March 2016

EDUCATION

Georgia Institute of Technology Atlanta, GA

BS, Computer Engineering - 2003

Certificate in Industrial and Organizational Psychology - 2003