

PROFESSIONAL EXPERIENCE

Rovisys, Aurora, OH

May 2023 – Present

Systems Engineer

- Testing and on-site commissioning and qualification of control systems
- Provide state-of-the-art Control Systems to improve efficiency, product quality, and profitability of process manufacturing

Valspec, Royersford, PA

July 2020 – May 2023

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
- Added functionality to web-based batch analytics software using .NET, SQL, and Angular frameworks
- 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)

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
- OPC and SQL triggering and reporting
- Created custom interface software and reporting for DeltaV

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 bultoning 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
- 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