



MAKING PLANTS SMARTER.

**Brian Dierker** Control Engineer, Performance Services  
University of Missouri-Rolla, Bachelor of Science, Chemical Engineering

Brian.Dierker@Experittec.com    www.experittec.com

## Performance Services

Brian has over six years of process control experience including control design, capital project management, control systems and HMI development, field instrumentation configuration and support, variable frequency drives (VFD), project startup support, and FDA validation protocols.

### *Highlights*

Pharmaceutical, project engineer, Sigma Aldrich - Supported project team around configuration, installation, validation, operator training, and startup for the N1 project that used DeltaV, fieldbus, and profibus.

Chemical, project engineer, ICL - Supported project team around configuration, installation, and startup for the STP Dry Calciner conversion that used DeltaV, VIM, AllenBradley PLCs.

Pharmaceutical, project lead, Covidien - Designed, managed, and implemented DeltaV upgrade that included version and graphics migration, validation protocol development and execution, startup check out, and OSI PI Interface configuration.

As a control engineer at Mallinckrodt Chemical Co. Brian designed, implemented, and started up a Boiler Baghouse project which involved converting the existing Texas Instruments Controller with push button station and pneumatic instrumentation to an Allen Bradley SLC 5/05 with InTouch Wonderware HMI as well as new electronic field instrumentation.

Additional experience as a control engineer at Mallinckrodt Chemical Co. includes:

- Implemented the automation of two plant chillers using an existing AllenBradley PLC 5/40E, InTouch Wonderware HMI, and new field instrumentation/pumps.
- Supported the design, checkout, and startup of a site wide environmental emission control project which included Control Logix PLCs, Powerflex 7000 medium voltage drives, field analyzers, Control Net Protocol, Honeywell Burner Management System, and InTouch Wonderware HMI.
- Designed and implemented modifications to field instrumentation, analyzers, and sample conditioning cabinets around the emissions utilities process which allowed for online maintenance of said instrumentation to occur without taking a plant outage. Saved ~\$150K/quarter.
- Responsible for cost, schedule and technical scope of numerous reinstrumentation and automation projects in the plant utilities and special products processes.

### *Technical Experience*

Hardware experience: PLC 5, SLC 500, Micrologix, Control Logix, Compact Logix, Control Net, Panelview 550, Panelview Plus, Powerflex 4, 70, & 7000 Drive, AB 1336 PLUS II Drive

Software experience: DeltaV, RSLinx, RSLogix 5, 500, & 5000, RS Emulate, RSNetWorx, InTouch Wonderware, Panelbuilder32, RSView SE/ME, RS Drive Executive, RS Drive Explorer, RSFactory Talk, Industrial SQL Server

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