Jonny L. Taylor, P.E.

DISTRIBUTED CONTROL SYSTEMS AND INSTRUMENT ENGINEERING

RÉSUMÉ

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SUMMARY

- Project leadership: project development, engineering, installation, field startup, and operatons.
- Project engineering: instrumentation and control projects, distributed control systems (DCS), programmable controllers (PLC), human-machine interfaces (HMI), system interfaces.
- DCS/PLC/HMI programming.

BACKGROUND

(8/2001 – current) Direct employee of Parsons, Inc., Newport, IN
Chief I&C Engineer

- Supervising I&C group in commissioning, then operating, a plant which destroys VX nerve agent for the US Army. The project includes three control systems with a total of about 3000 I/O: Fisher DeltaV, Siemens Quadlog, and A-B Control Logix.
- Keywords: NECDF, PMCD, PMATA, hydrolysate, demilitarization.

(8/2001 – 4/2002) On contract to ExxonMobil, Houston, TX
Owner's I&C Engineer

- Client company's lead engineer overseeing EPC contractor's design, installation, and testing of instrumentation, safety, and control systems for floating oil production installation in 4500 feet of water 100 miles offshore of Angola, West Africa. This was the surface wellhead portion of a $3B project.
- Controls were 8,000 I/O DeltaV using HART. Keywords: SWHP (surface wellhead platform), FPSO (floating production and storage operation), TLP (tension leg platform), API RP 14C, HAZOP.

(4/2001 – 8/2001) On contract to Agrium, Soda Springs, ID
I&C Startup Engineer

- Assisted with commissioning of a $90M purified phosphoric acid plant using a 5000 I/O DeltaV DCS with both Foundation Fieldbus and HART.

(11/1999 – 2/2001) On contract to Borden Chemicals, Inc., Donaldsonville, LA
Controls Project Engineer/Manager

- Developed and justified controls upgrade project for existing melamine plant, including identification of profit improvements, design of advanced control strategies, and project justification. Supported plant during this period with measurement and control issues.
- Developed and implemented a second project using Fisher DeltaV DCS with OSI-PI and Intellution iFix for process monitoring. This included design and configuration of the system, Modbus interfaces to Allen-Bradley PLC, Bently-Nevada system and Yokogawa multiplexers, training of users, and start-up.

(9/1998 – 11/1999) On contract to Melamine Chemicals, Donaldsonville, LA
Owner's I&C Engineer

- Client company's lead engineer coordinating and reviewing EPC contractor's design, installation, and testing of instrumentation, safety and control systems for $74M grassroots melamine plant planned for Memphis, TN.

- Responsible for review and approval of DCS selection, instrumentation, safety systems, designs, and P&ID's.
- Prepared standards and overall control philosophy. Worked with process engineers to develop control schemes and safety systems. Participated in HAZOP of process design.

(1997 - 8/1998) On contract to McDermott Engineering, Houston, TX
Control Systems Project Engineer
- Coordinated control and safety systems integration in a project to install two offshore gas production platforms in Qatar. I was brought in after the original shipping date to coordinate completion of implementation and testing before shipment. This included resolving issues between McDermott, Foxboro, Triconex and other vendors, reviewing and adjusting working design documents and specifications.
- Performed a six-week factory acceptance test in Singapore for a similar system in July/August 1998.
- These systems all complied with API RP-14C, *Offshore Safety Systems*. The Singapore system was one of the first to be implemented without a traditional pneumatic wellhead safety system.

(1996 -1997) Marrero, Couvillon & Associates, Baton Rouge, LA
Instrument and Controls Project Engineer
- Developed, engineered and programmed controls for a 2500 lb/hr bulk ore conveyor using Allen-Bradley PLC-5 and WinView HMI. Monitored construction, trained users, assisted in startup.
- Engineered instrumentation and controls for sugar refinery cogeneration plant.
- Developed controls for pneumatic bulk alumina transfer system.
- Developed monitoring system for conveyor dust collection system.
- Implemented WonderWare HMI for sewer treatment plant.

(1992 - 1995) Exxon Company USA, Baton Rouge, LA
Instrument and Controls Project Engineer
- I&C and systems engineer for construction and startup of $20M Marine Loading Vapor Recovery System using Honeywell TDC. Designed and implemented control strategies for incinerator and flare using Siemens 565 PLC, revised Triconex protective system and its interface to TDC; coordinated resolution of startup problems.
- I&C project engineer for $4.5M MEA regenerator debottleneck project. Coordinated detailed instrumentation design, material procurement, construction and startup.
- I&C project engineer for $7M pipestill debottleneck project. Developed overall safety system design, specified instruments and control valves, prepared construction cost estimates.

(1986-1992) Exxon Company USA, Baton Rouge, LA
Control Systems Engineer - Configuration, Programming, Support
- Systems support for new projects and existing systems in 700-tank field, including SCADA system, tank gauges, custody transfer, product blending, pumps, motor valves, and other devices.
- Key participant in designing and implementing a 9M$ TDC-based project to replace the above.
- Supported several other TDC-3000 DCS projects through planning, systems configuration, schematic development, and special applications programming.
- Project engineer for development and testing of Honeywell's Communications Link Module.
- Developed extensive set of programs (8000+ lines of code) to manage TDC-to-PLC interface system.

(1974-1986) Exxon Company USA, Baton Rouge, LA
Instrumentation and Electrical Engineer
- Engineered installation of on-stream process analyzers, including design of sample systems.
- Engineered installation of custody transfer measurement systems.
- Engineered the instrumentation of many plant additions and upgrades, including preparing specs, supervising preparation of installation drawings and assisting with construction and startup.
- Engineering support of hardware in a 10,000+ loop refinery control center.

- Designed, programmed, and installed several microprocessor-based systems and system interfaces.
- Engineered various power distribution and motor control installations up to 2400V.
- Prepared specifications for a 5000-point temperature measurement systems, with team.

SUPPORTING KNOWLEDGE AND SKILLS
- I&C project engineering and management.
- Presentation, verbal and written communication.
- Trouble-shooting and problem-solving.
- Control of continuous and batch processes.
- Instrumentation, including preparation of instrument and valve specifications, design of installations, applications of process analyzers, training of users and construction/startup assistance.
- DCS/PLC/HMI application/programming/configuration.
- ANSI/ISA-S84.01 Safety Instrumented Systems.
- Software background in Visual Basic, C, Pascal, Forth, FORTRAN, several assembly languages, several PLC languages, plus DeltaV and TDC-3000 applications.
- Proficient in Microsoft Word, Excel, Access, FrontPage, and Visio; familiar with MS Project and PowerPoint.

CONTROL HARDWARE/SOFTWARE EXPERIENCE/EXPOSURE
- Fisher-Rosemount DeltaV; Foxboro I/A; Foxboro Spec 200; Honeywell TDC-3000; Triconex; WonderWare/Intouch; Intellution iFix; Rockwell/Allen-Bradley PLC-5 and WinView; Siemens/Texas Instruments 500 Series (505, 525, 535, 545, 565); Koyo/PLC Direct, HART, Foundation Fieldbus, Modbus, serial and parallel interfacing, intrinsic safety.

PROCESS and EQUIPMENT EXPOSURE
- Highlights: blending (continuous and batch), compression, contacting gas-liquid, centrifuges, crystallization, distillation, fired boilers/heaters, fixed-bed catalytic reactors, flaring, flash cooling, fluid catalyst reactors, gas-liquid contacting, heat exchangers of various types, high-vacuum distillation, multi-stage mixer-setters, slug-catchers, slurry handling and drying, solids handling (powder, rock, dust, conveying, pneumatic transfer, baghouses), vacuum pumps, water and steam eductors.

STANDARDS AND REGULATIONS EXPOSURE
- NEC, ISA, IEC, API, MSHA, OSHA PSM and others.

EDUCATION
- MS and BS in Electrical Engineering, Louisiana State University, Baton Rouge, LA

LICENSES
- Registered Professional Engineer - Control Systems - Louisiana
- Registered Professional Engineer - Electrical - Louisiana

PROFESSIONAL ORGANIZATIONS
- ISA - Instrumentation, Systems, and Automation Society
- AICHE - American Institute of Chemical Engineers

MILITARY & SECURITY
- Current clearance is SECRET.
- Served in US Army Signal Corps as 1st Lieutenant, with SECRET clearance

Updated 27 March 2006. See www.jetaylor.com/resume.html for current version.