Able-Baker Automation™, Inc.
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Wendell C. Baker, P.E.

Senior Control Systems Engineer

EXPERIENCE

Twenty nine years experience in all aspects of instrumentation, including twenty five years of supervising instrument and electrical design engineering.

FIELDS OF EXPERIENCE

-Distributed Control Systems
-Programmable Controller System & Networks
-Direct Digital Control
-Instrumentation
-Plant and Furnace Safety Systems
-Project Start-Up
-Estimating
-Motor Control Design
-Process Control Logic
-Biotech/Fermentation Controls/Validation
-Recycling Separation Technologies
-Servo and Stepper Motor Control

WORK HISTORY

Senior Control Systems Engineer and President, Able-Baker Automation and ASPECT Automation, Inc.
Responsible for the supervision of all technical engineering functions and all phases of System Integration work. Quality control supervisor.

Designed and programmed a complete integrated PLC system for a paint manufacturing plant. The system included multiple PLCs, control panels and an operator interface unit. The system controlled tank farm storage, batch mixing, and packaging.

Designed and programmed a two axis ultrasonic welding machine control systems for a medical device.

Designed, supervised, programmed and started up an integrated PLC/PC control system for two plastic recycling plants, including automatic control, pneumatic and vacuum silo storage systems, and remote monitoring. Designed HMI screens to allow for multiple languages (German and Chinese).

Modified a PLC program for Hazardous Material Storage.

Lead Control Systems Engineer, ESII-Control Systems Integration
Supervised all engineers and designers in the Control Systems and Systems Integration Groups.

Responsible for quality of engineering design, budget, and scheduling for control system and instrumentation support. Project sizes and types varied between small task orienting consulting, plant modifications, additions to retrofit, to new construction up to 15 millions dollars. Overall project responsibilities included various combinations of engineering design, furnishing turn-key control systems complete with all hardware and software, construction supervision and start-up.

Instrument/Electrical Department Manager, Kinetics Technology International (KTI)
Supervised all instrument and electrical design. Projects included hydrogen reformers, gas processing plants, sulfur recovery plants, co-generation plants and industrial furnaces (values to $50 million). Responsible for specification, supply, and configuration of all the instrumentation systems including distributed control systems and programmable controllers. Participated in many plant start-ups.

Created an automatic control program for small hydrogen reformers including automatic start-up and shutdown routines.

Specified, purchased and assisted with configuration of a Yokogawa DCS system for a large Natural Gas Processing Plant.

Instrumentation Engineer, R. M. Parsons Company
Specified control valves, relief valves and level instrumentation for a large refinery expansion. Was assigned as liaison between instrumentation and piping groups on this project.

EDUCATION

University of California, Berkeley. BS in Chemical Engineering. Graduated with High Honors.

PROFESSIONAL LICENSES

Control Systems Engineer, 1985, California. #CS7051

SPECIAL SKILLS AND INTERESTS

-Past Editor of Northern California Newsletter, Instrumentation Society of America.
-U.C.L.A. Extension Courses in Microprocessors, Artificial Intelligence and LISP Programming.
-U.C.B. Extension Courses in C programming and UNIX.
-Allen Bradley 5/250 Programming/PI System Course.
-Management Action Program.