



ERIC E. DAIGLE, P.E.
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EDUCATION & AFFILIATIONS

- B.S., Electrical Engineering, University of Maine at Orono, 1989
- Professional Engineering License, State of Texas #87680, State of Louisiana #30848
- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- Member of the National Fire Protection Association (NFPA)
- Certified for Underwriter's Laboratory (UL) panel fabrication

WORK EXPERIENCE

Daigle Automation, Inc. - Flint, TX, Jan. 2003 - Present

President & CEO

DAI provides Engineering, Design and Fabrication for Electrical and Control Systems for industries worldwide.

In addition to the normal duties as president I also have performed the following work while at DAI:

North America:

- Murphy Oil Company, Superior, WI - Tail Gas Unit
 - Burner Management System Commissioning and Consulting on Reaction Furnace
 - DeltaV Control System Support
 - Operations Support
- EPC, Inc. Whitehouse, TX - Hydrocarbon Dew Point Plant
 - DeltaV Control System Engineering and Design for entire plant
 - Operations Support
- VME Process, Whitehouse, TX - Glycol Unit & Production Units
 - Desalter Control Panel Design
 - Instrument and Electrical Design Support
- Hunt Oil Company, Dallas, TX - LNG Project
 - Distributed Control System & Emergency Shutdown System Consulting (SIL review)
- Navajo Refining (Holly Corp.) - Artesia, NM
 - Honeywell TDC 3000 Distributed Control System, Compressor Controls & Burner Management Systems
 - Supervised construction and performed pre-commissioning & commissioning of plant
- Wynnewood Refining Corp., Wynnewood, OK - Diesel Hydrotreater & Vacuum Unit
 - Honeywell TDC 3000 Distributed Control System & Burner Management Systems
 - Performed loop check and DCS testing for Hydrotreater Unit

South America:

- Petrobras, Maceio, Brazil - Cryogenic Gas Plant
 - DeltaV Control System Commissioning and Start-up Assistance

- Control System Design for entire plant. All logic for plant was done in control system per customer specs, including turbo expander, compressors, dehydration and heater logic
- HIMA Emergency Shutdown System Commissioning and Start-up Assistance
- Operations Support
- Repsol, Margarita, Bolivia - Hydrocarbon Dew Point Plant
 - DeltaV Control System Commissioning and Start-up Assistance
 - Hot Oil Heater, HP and LP Flare Commissioning
 - Operations Support

Kyrgyzstan:

- Kyrg Oil, Kyrgyzstan
 - Replaced out dated Azonix DCS with new DeltaV System within 2 week shutdown schedule. Plant started up immediately with no delays.

Africa:

- Cameroon Oil Transportation Company (COTCO), Cameroon - 2 Crude Oil Topping Units
 - Process Training and Technical Support
 - Operations Support
 - Commissioning and Start-up Assistance
- Petrofac, Tunisia - 28,000 m³/hr Gas Conditioning Plant
 - Project Management for DCS, ESD and Fire & Gas System
 - Construction, Operations and Commissioning Support

Petrofac - Tyler, TX, 1995 - January 2003

I/E/C Engineering Manager

- Responsible for managing the activities of the instrument, electrical and control system engineering for the company;
- Ensure that project execution activities are carried out within the constraints of established budgets and schedules;
- Guide the activities of proposal preparation for instrument, electrical and control system engineering;
- Administer the department budget;
- Provide training and guidance as needed to enhance the effectiveness and promote professional growth of direct reports;
- Develop, implement and maintain procedures to insure compliance with the quality program;
- Prepare employee performance evaluations and administer salaries;
- Plan manpower requirements, recruit and hire personnel as necessary to support business levels;
- Assign work and set priorities to support project schedules;
- Ensure that engineering, drawings and equipment meet contractual requirements and comply with project budget constraints;
- Responsible for ensuring ISO 9000 compliance for the department

Sr. Control Systems Engineer/Specialist Supervisor

- Worked with Process Engineering and other required disciplines to define functional specifications for digital control systems;
- Prepared or oversee preparation of cause-and-effect diagrams, logic diagrams or other documents defining functional specifications of digital control systems;

- Prepared or oversee preparation of purchase specifications and requisitions of hardware and associated documentation of digital control system components;
- Oversaw preparation of engineering drawings related to digital control systems;
- Performed all necessary programming and configuration of digital control system components;
- Provided technical assistance for shop fabrication and checkout of digital control systems;
- Provided technical assistance in preparation of project proposals involving digital control systems;
- Provided start-up assistance as required.

Yemen Hunt Oil Co. - Republic of Yemen, 1991 - 1995

Instrument Engineer

- Maintained control systems for three gas and oil production facilities in North Yemen;
- Originally involved in design, construction and commissioning of plants;
- Programming of over 50 Modicon 800 Series PLC's;
- Developed a process monitoring and control system implementing RealFlex for QNX Windows. System included nine 486 PC's configured in an Arcnet Network. Software development of this system included writing over 10,000 lines of process control sequence language, creating over 300 dynamic process screens and developing a 5,000 point database.
- Interfacing control system with gas turbine compressors, turbo expanders, gas turbine generators, PLC's, gas chromatographs, chart recorders and a microwave system;
- Extensive knowledge of cryogenic gas plant and oil production processes;
- Maintenance of P&ID, electrical and instrumentation drawings for each control system.

BJ Software - Friendswood, TX, March 1991 - Oct. 1991

Control Systems Consultant

- Responsible for integration of process control systems implementing RealFlex for QNX Windows. Worked with customers in developing software drivers for interfacing equipment with RealFlex.
- Developed application for a pipeline monitoring, control and billing system. Assisted programmers in adding features and improvements for control systems. Also assisted in software testing and evaluation.

Daniel Industries - Houston, TX, September 1990 - March 1991

Applications Engineer II

- Responsible for software specification development, Model 2500 Series Flow Computer programming, project engineering and technical sales support for quotations.
- Extensive knowledge of AGA3, API Chapters 11, 12 & 14, API2565 and other applicable standards.
- Experience in system integration of Energy measuring/monitoring/billing systems implementing RealFlex SCADA software.

Digital Equipment Corp. - Augusta, ME, May 1988 - July 1990

New Products Manufacturing Engineer II

- Responsible for introducing new products into volume manufacturing.
- Initialized all aspects of module assembly and test including impact statement, manufacturing plan and capital requests. Specified surface mount, through-hole and ATE requirements.

- Set labor standards.
- Organized work cells in support of World Class Manufacturing (WCM) efforts.
- Designed product specific test equipment and assembly tools. Managed technical personnel.
- Developed relationships with Design Engineering to influence "Design With Manufacturing" concepts.
- Designed hardware for improving test process at Digital.
- Specifically, designed a voltage margining device and the hardware for a burn-in monitoring system.

International Paper - Jay, ME, Summer of 1986 and 1987

Electrical Engineering Intern

- Assisted foreman in automating a hydro station. Supervised contract workers.
- Responsible for maintenance planning of the electrical and instrumentation work in the pulp mill.
- Replaced a pneumatic system with a more efficient, reliable electrical system, which required interfacing with motors, valves and switches. Duties also included computer programming and drawing detailed schematics.

SYSTEM EXPERIENCE

Experience with estimating, designing, implementing and commissioning the following control systems:

- Modicon 984, Quantum and Compact PLC's
- Allen-Bradley PLC 5, SLC 500, ProcessLogix and ControlLogix PLC's
- Intellution, WonderWare and PanelView Human Machine Interfaces (HMI)
- Foxboro I/A Distributed Control System (DCS)
- Azonix DCS
- Honeywell TDC 3000 DCS
- Honeywell Fail Safe Control (FSC) Emergency Shutdown System
- HIMA Emergency Shutdown (ESD) System
- Moore APACS DCS
- Fisher-Rosemount DeltaV DCS
- Dynamic Fluid Flow Computers
- Daniel Flow Computers
- Halliburton Flow Computers
- Burner Management Systems
- Fire and Gas Systems

PROJECT & START-UP EXPERIENCE

- Yemen Hunt Oil Company, Oil & Gas Production Facilities, Republic of Yemen
- Kyrg Oil Company, 10,000 BPD Crude Topping Unit, Kyrgyzstan
- Sante Fe Pacific Pipeline, Transmix Unit, California
- Shell Oil Company, SRU & Amine Unit (Offshore), Venezuela
- Petrobras, Dehydration & Amine Unit, Bolivia
- Oxy, Crude Topping Unit, Ecuador
- Petrobras, Cryogenic Gas Plant, Brazil
- Orion, Hydrotreater, Louisiana

- Murphy Oil USA, Tail Gas Unit, Wisconsin
- Repsol, Hydrocarbon Dew Point Plant, Margarita, Bolivia
- Navajo Refining (Holly Corp.), Gas Oil Hydrotreater, Artesia, New Mexico
- Wynnewood Refining Corp., Diesel Hydrotreater & Vacuum Unit, Wynnewood, Oklahoma
- Petrofac, 28000 m³/hr Gas Conditioning Plant, Tunisia, Africa