

Electrical, Instrumentation & Control Systems

Bryon Lewis, P.E., with over 30 years of experience in the electrical, controls and instrumentation fields, has worked in the field, in the plant office and for consulting firms for petrochemical plants, natural gas compressor stations, burner management systems and manufacturing plants. His expertise includes calibration, startup, PLC programming and scoping of projects; development of asbuilt and new P&IDs, including electrical power and control systems drawings of multiple types of plant systems.

He has hands on construction and supervisory experience in the installation and troubleshooting of systems for material handling, petrochemical production, networking applications, and control. He is capable of network support for servers, workstations, switches, and design of cabling systems.

Bryon is expert in industrial automation and is accomplished in PLC programming for Allen Bradley SLC 500 and RS Logix.

Selected Experience

Fractionating Unit and Offsite Tie-in

Sinclair Oil Company, Tulsa, OK

Electrical and Instrumentation Engineer on conversion of the old pneumatic control system to a new Invensys/Foxboro IA DCS system with electronic instrumentation.

Commercial Electrical Projects

Wal*Mart, Home Depot and Lowe's, Tulsa, OK

Electrical Coordinator (Engineer) on power, lighting and energy management for multiple stores.

Transportation and Storage Projects

Enron-Northern Natural Gas, multiple sites

Senior I&E Designer on the design of compressor station instrumentation and control systems, electrical power distribution and shutdown systems. Job scoping and walk down for asbuilt P&IDs.

Coke Reformer Unit

Diamond Shamrock Plant, Three Rivers, TX

Engineering Technician (Electrical and Instrumentation) Installation and start-up, including calibration and programming of instruments, termination of Honeywell TDC-3000 and troubleshooting of electro-mechanical systems and 3500 HP synchronous motor compressor.

Major Pharmaceutical Plant Expansion

Eli Lilly - Procter and Gamble, Indiana

Electrical Designer on electrical power distribution and lighting systems for Eli Lilly and short circuit analysis for Procter and Gamble.

Registration

Professional Engineer in the State of Wisconsin

Education

BSEET, Controls and Instrumentation

Continuing Education (Lehigh University)

Chemical Engineering Fundamentals I

Certifications & credentials

SME – Certified Manufacturing Engineer (Integration and Control)

ISCET – Journeyman Industrial Electronics Technician

ISA – Certified Control Systems Technician

Texas Master Electrician

Certified Profibus Network Engineer

Affiliations

ISA, Instrumentation, Systems and Automation Society, Senior Member

Recognition

ISA professional publication - *Control Systems Engineering Exam Reference Manual: A Practical Study Guide*

Other notable clients

JVC America, Tuscaloosa, AL
Supervision and mobilization of this solvent recovery project
Texas Eastman, Texas – HCC4

Amoco Texas City, Texas
Shell Willington & Domingos, CA
Comanche Peak Steam Nuclear Steam Station, TX