

# Charles R. Enochs

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## EDUCATION

Bachelor of Science in Electrical Engineering  
Oklahoma State University, Tulsa, OK

2008

## PROFESSIONAL EXPERIENCE

Exterran Process and Treating

### **Electrical and Controls Engineering Manager**

Dec 2017-Sep 2020

- Established professional relationships with all engineering disciplines including business development and the research and development group to provide technical assistance and guidance
- Reviewed and approved project design documentation including support and estimations for the proposal group which included process and treating, power generation, and water conditioning
- Managed 17 employees with over 25 projects and achieved a 95% on time deliverables
- Supported onsite for 3 months at the MarkWest (MPLX) facility as lead electrical engineer to improve customer relationships. Sherwood is the largest gas processing facility in the United States
- Designed and managed substations for over 10 gas processing plants
- Worked closely with electric utility companies to verify capacity rates for the plants installed
- Supported Project Managers to provide technical support and guidance for projects
- Supported operations in troubleshooting specific issues along with root cause analysis
- Startup support for more than 15 cryogenic gas plants
- Established preliminary plot plans to meet GAP guidelines and NFPA codes
- Experience with industry regulations and codes including: OSHA, ANSI, API, NFPA, ASME, NEC, IEC, RAGAGEP, and PSM
- Served as Electrical Engineer for multiple projects for OSBL and ISBL portions of new cryogenic plants
- Worked with local and state inspection agencies in 7 states to meet startup dates for gas processing plants, compressor stations, and meter sites
- Trained engineering assistants for establishing proper contracts and agreements with vendors
- Proficient in AutoCAD, SKM, Visio, Specification Manager, and Microsoft Office

MarkWest Energy

### **Senior Electrical / Instrumentation Engineer**

May 2012-Dec 2017

- Established professional relationships with operations, measurement, safety & environmental, and business development to provide technical assistance and guidance
- Reviewed and approved project design documentation including support and estimations for management in the budgeting process of over 50 AFEs
- Served as Project Manager for the Omega Cryogenic Plant scheduled to startup May 2018
- Served as Project Manager for the Stack Oil Terminal, which was ahead of schedule and under budget
- Designed and engineered an unmanned oil terminal that within the first year unloaded over 900,000 bbls
- Designed and managed 138 kV substations with AEP Ohio for over 20 gas processing plants, as well as power requirements at the sites. Project Value \$5M.
- Designed and managed plant power distribution centers. Project Value \$5M.
- Worked closely with electric utility companies to obtain the best rates and schedule to meet project needs
- Specified maintenance requirements for electrical and instrumentation needs at operating facilities
- Supported other Project Managers to provide backup plant power for all gas processing plants
- Managed electrical engineering companies on multiple projects related to code compliance and operational safety
- Supported operations in troubleshooting specific issues along with root cause analysis

- Startup support for more than 20 cryogenic gas plants, Stack Oil LACT and Pipeline well connects, Stack Oil terminal and a CO2 liquefaction facility
- Established preliminary plot plans to meet GAP guidelines and NFPA codes
- Experience with industry regulations and codes including: OSHA, ANSI, API, NFPA, ASME, NEC, RAGAGEP, and PSM
- Coordinated with Operations group to provide PSM documentation
- Served as Instrument Engineer for multiple projects for OSBL and ISBL portions of new cryogenic plants
- Worked with local and state inspection agencies in three states to meet startup dates for gas processing plants, compressor stations, and meter sites
- Create and approve area classification for MarkWest cryo plants, fractionation, and compressor stations
- Trained engineering assistants for establishing proper contracts and agreements with vendors
- Worked with operations on established maintenance for instrumentation and electrical equipment
- Proficient in AutoCAD, SKM, Visio, Specification Manager, and Microsoft Office

Vinson Process Controls

**Account Manager**

September 2010-May 2012

- Account Manager for over 50 accounts covering oil field, pipeline, gas processing plants, power plants, refineries, natural gas providers, burner management, EPC's, and OEM's
- Skilled in the engineering and operation of control valves, quarter turn valves, valve accessories, digital valve controllers, I/P transducers, electro-hydraulic actuators, pressure regulators for natural gas applications, industrial regulators, process and fuel gas applications
- Certified and trained in Fisher products including Control Valve Engineering I, Digital Valve Controllers, Regulator Maintenance and Sizing, and Regulator Sales
- Coordinated on site valve repair to support commissioning efforts enabling mechanical completion for client
- Successfully managed inspection, repair, and arrival of 19 control valves damaged in Oklahoma tornado
- Constantly involved with engineering, procurement, and management to ensure the best service

Linde Process Plants, Inc.

**Commissioning / Instrument Engineer**

August 2007-September 2010

- Extensive experience in the field including instrument checkout, site acceptance testing, plant commissioning, and performance testing
- Created and maintained instrument lists, instrument specification sheets, installation details, and instrument loop drawings
- Coordinated with all engineering disciplines including chemical, mechanical, civil, and electrical on the application of control strategies and their implementation into the plant control systems
- Constantly conversing with clients and vendors to achieve a quality product
- Interacted with clients to design, engineer, and manage crucial projects allowing plant startup to meet deadlines
- Diligently worked with manager on Six Sigma project to improve efficiency and accuracy for control valve data sheets
- Dedicated 80 hours to a Six Sigma project which helped improve the revision process for Piping and Instrumentation Diagrams
- Obtained Houston Area Safety Council (HASC), Transportation Worker Identification Card (TWIC)

Oklahoma State University

Fall 2007-Fall 2009

**Lab Instructor**

- Educated Senior Design I and II students on documentation, design, prototyping, and characterizing projects
- Instructed students in passive and active element network design
- Wrote instructional and design labs, lab practicals, and a report template
- Led numerous study sessions with students to increase overall knowledge of subject matter

- Worked with professor to ensure lab integrity for the electrical engineering program

International Custom Control

May 2005-August 2007

**Intern**

- Integral part in a design team developing control systems to NFPA standards
- Assisted lead engineer with instrument datasheets and programming a PLC using ladder logic
- Created electrical, piping and mechanical drawings using AutoCAD
- Accountable for direct interface with both vendors and customers
- Responsible for creating and updating job quotes and proposals
- Created useful templates for shop personnel and staff engineers

United States Navy

May 2000-May 2004

**Electronic Technician**

- Experienced technician in a fast-paced, industrial environment with an in-depth knowledge of troubleshooting and the maintenance of complex and integrated electronic systems
- Lead technician supporting Engineers with loop checks for redundant ships inertial navigation systems with over 10,000 I/O points per system
- Management of a work force comprised of 10 technicians during an intensive 6-month, 24-hour schedule ensuring the complete restoration of a radar tower including repair of time critical equipment casualties
- Head electronic technician for over 100 trouble calls with 100% system recovery
- Received executive-level award for complete installation of a Electronic Charting Display Information System which was key to upgrading the USS Carl Vinson's mission capability for a nine month cruise during Operation Iraqi Freedom
- Supervised a division of 30 technicians in damage control by maintaining firefighting equipment and individual workspace integrity
- Expert in performing planned maintenance generated in a computerized maintenance program to ensure 100% operability and efficiency of equipment
- Responsible for maintaining and troubleshooting electronic equipment that was crucial in sending aircraft alignment data for mission capabilities
- Trained in Digital and Analog Test Equipment
- Responsible for communications for the In-Port Emergency Team
- SECRET Security Clearance

**AWARDS**

Navy Achievement Medal

Good Conduct Award

\*References available upon request