

Timothy A. Clemans
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I am a computationally minded hands-on, mechanically and technically oriented person looking for a position that will give me room to grow. I have experience working in the instrumentation and controls for oil and gas, chemical manufacturing/ refining and regulatory industries. I am an analytical problem solver who enjoys a challenge to test my varied skill set learned through a diverse working history, and supported by bachelor's degrees in electronics engineering, analytical chemistry and structural geology.

Certifications and Skills

Skills	Training	Experience
<ul style="list-style-type: none">• IOT and Edge Computing System Integration• Programming Languages: Python, Java, C++ and others• Instrumentation and Control System Design	<ul style="list-style-type: none">• RSLogix 500, 5000 and CCW• Control Logics Studio• Ignition• PLCNext Engineer and Visu+• Microcontroller System• PACCU (TotalFlow)	<ul style="list-style-type: none">• Panel and Site commissioning (FAT and SAT)• System Diagnostics and Troubleshooting• Panel Fabrication and design• Blueprints and as-builts

Education

DeVry University, Greenwood Village, Colorado	2013
<ul style="list-style-type: none">• Bachelors of Science, Electronics Engineering and Technology Specialization in sensors and control systems	
Adams State University, Alamosa, Colorado	2002
<ul style="list-style-type: none">• Bachelors of Science, Chemistry with specialization in analytical instrumentation methods• Bachelors of Arts, Geology with specialization in environmental geochemistry and structures	

Professional Experience

<u>Applications/SCADA Engineer</u>	Contract(04/22-Current)
Schneider Electric - SAG Group, Full Remote	
<ul style="list-style-type: none">• Application Engineer for Power Systems Operations (PSO) group. This includes building screens, databases, programming devices, system setup and troubleshooting as needed.	
<u>Senior Control System Engineer</u>	(05/21-04/22)
Master Builders Solutions, Brighton, Colorado	
<ul style="list-style-type: none">• Manage and maintain a multi-platform DCS system (ABB 800xA, Allen-Bradley, and Siemens S7) using a multiple layer ProfiNet/ProfiBus DP communication backbone.• Manage and maintain new installations of pumps, motors, instrumentation and other process hardware including robotics, case packers and extruders.• Troubleshoot and manage DCS issues for both failures and optimization of system processes for quality and total system throughput.	
<u>Applications Engineer / Programmer</u>	(03/18 – 04/20)
Zap Oilfield Solutions/Zap Engineering, Lakewood, Colorado	

- IOT System Design and Edge Computing Integration for the Tank Emissions Management Systems (TEMS®) using Python, JavaScripting, and PLC Programming.
- Instrumentation and controls system engineering, design and commissioning for the TEMS system. This includes specification of I/O computers, modems, sensor systems, and infield installations requirements.
- LAN, WAN, cellular and radio-based network communications system design and implementation.
- Remote system data management, machine learning and data warehousing using SQL style databases
- Programming devices: Allen-Bradly Connected Components Workbench (CCW), ABB PCCU 32, Ignition HMI, ControlLogix Studio 5000 (and 500), and Sierra Wireless Cell Modems and Linux.

Instrumentation & Controls Technician, Engineer level 2

(06/2015-02/2016)

FEI Engineers Inc., Greenwood Village, Colorado

- PLC programmer in RSLogix 500 and 5000 for Micro, Compact, and ControlLogix systems used in the water and wastewater industry.
- HMI, SCADA and database design using Ignition from Inductive Automation, Allen Bradley controllers and MySQL databases.
- One-line and three-line electrical drawings, PLC cabinet design, VFD pinouts and programing, and panel and field wire diagrams.

Instrumentation & Controls Engineer level 1

(09/2014-02/2015)

Merrick & Company, Greenwood Village, Colorado

- Work with multiple engineering disciplines to generate the best instrumentation and controls for a given client's conditions of service (COS). This includes the construction of control system narratives, I/O counts, wiring requirements and lists, and the actual programs for the PLC, DCS, network and HMI.
- AutoCAD drafter for 1-lines, 3-lines, I&C on piping drawings and layouts for site/panel.
- Perform due diligence studies for instrumentation, controls and electrical equipment required to meet or exceed client expectations. This includes documentation, chain-of-custody and reporting for audit paper trail

Designer-Electrical/Control Systems

(03/2013-02/2014)

Iofina Resources, Greenwood Village, Colorado

- Developing programmable logic controllers (PLC) systems from the ground up, using Allen Bradley PLC units and Rockwell Automation software. This includes adapting current RSLogix 500/Wonderware systems into RSLogix 5000 and FactoryTalk View SE models.
- Design, procurement, and construction of sensor systems for use with the PLC. This includes mounting, testing and calibrating of these sensors for operations in an Iodine extraction facility.
- Office information technology infrastructure provider. Required to manage voice over internet protocol phone system (VOIP), printer install and maintenance, office and field virtual private network (VPN) and network maintenance/operations for small office and remote personnel. (i.e.: Office IT support)

On Site Program Manager, Lockheed Martin SSC-Waterton

(09/2005-02/2013)

Clean Harbors Environmental Services Inc., Littleton, Colorado

- Manage client's hazardous waste program at large quantity generator site, Lockheed Martin Waterton campus. Managing various onsite chemists to maintain 200+ satellite accumulation areas and five separate 90-day areas.
- Perform sampling, testing, and data management of waste material to meet or exceed both regulatory requirements and client's expectations.

- Conduct daily inspections and reporting, weekly health and safety meetings, monthly employee training and reporting in accordance with Federal (EPA, TSCA, DOT, IATA), Colorado State, local government and client requirements