Timothy A. Clemans Email: clemansta@gmail.com Cell: 303-809-4631
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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
• IOT and Edge Computing System Integration • Programming Languages: Python, Java, C++ and others • Instrumentation and Control System Design	• RSLogix 500, 5000 and CCW • Control Logics Studio • Ignition • PLCNext Engineer and Visu+ • SEL-RTAC and Relays • SurvalentONE SCADA	• 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
- Bachelors of Science, Electronics Engineering and Technology
  Specialization in sensors and control systems

Adams State University, Alamosa, Colorado 2002
- Bachelors of Science, Chemistry with specialization in analytical instrumentation methods
- Bachelors of Arts, Geology with specialization in environmental geochemistry and structures

Professional Experience

SCADA Engineer III (06/2024-Present)
CLP Engineering, Greenwood Village, Colorado
- Schweitzer Engineering Laboratories (SEL) Real Time Automation Controller (RTAC) System programming and integration. This includes SEL relays and third party power management devices.
- Survalent's SurvalentONE SCADA System creation, modification and maintenance. This includes version control and data analytics.
- Standards documentation creation and modification base on need and location for DOD, DOE, Utilities, and other commercial entities.

Senior Instrumentation and Controls Engineer (12/2023-05/2024)
Kenosha EPC, Centennial, Colorado
- Instrumentation and controls system engineering, design and commissioning for multiple clients and industries.
- AutoCAD for: Control/j-box panels layout, Loop Drawings, Instrumentation install, and other foe construction documents.
- Generate standards, procedures, policies and other documentation based on industry best practices.

Applications/SCADA Engineer (04/2022-9/2023)
Schneider Electric - SAG Group, Full Remote

- Large scale SCADA projects using Power Systems Operations (PSO) for data centers and other large scale projects. (100k IO) This includes building screens, databases, programming devices, system setup and troubleshooting as needed.
- Small scale SCADA projects using Power Monitoring Expert (PME) for small and medium sized industrial power consumers. (Less than 10k IO). This includes building screens, databases, programming devices, system setup and troubleshooting as needed.

Senior Control System Engineer (05/2021-04/2022)
Master Builders Solutions, Brighton, Colorado

- 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.

Applications Engineer / Programmer (03/2018 – 04/2020)
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.
- 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 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 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 RSLogix 500 and 5000, and FactoryTalk View SE and ME 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. (VOIP, VPN, Networking)

Other
LinkedIn: www.linkedin.com/in/timothy-a-clemans
Personal site: https://clemansta.github.io/Portfolio_Site/