**Timothy A. Clemans** Email: [clemansta@gmail.com](mailto:clemansta@gmail.com)Cell: 303-809-4631

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I am 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**

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| **Skills** | **Training** | **Experience** |
| * IOT and Edge Computing System Integration | * RSLogix 500, 5000 and CCW | * Panel and Site commissioning (FAT and SAT) |
| * Control Logics Studio |
| * Programming Languages: Python, Java, C++ and others | * Ignition | * System Diagnostics and Troubleshooting |
| * PLCNext Engineer and Visu+ |
| * Instrumentation and Control System Design | * Microcontroller System | * Panel Fabrication and design |
| * PACCU (TotalFlow) | * 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**

Senior Control System Engineer (05/21-Current)

Master Builders Solutions, Brighton, Colorado

* Manage and maintain an multi-platform DCS system (ABB 800xA, Allen-Bradley, and Siemens S7) using a multiple layer ProfiNet/ProfiBus DP communication backbone.
* Maintain and manage new installations of pumps, motoes, instrumentation and other process hardware
* Trouble Shoot and manage DCS issues for both failures and optimization of system processes.

Applications Engineer / Programmer (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 instillations 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 Level 2 (06/2016-06/2017)

Aurora Water- SCADA, City of Aurora, Colorado

* Calibrations, troubleshooting and maintenance of instrumentation, PLC’s, OIT’s (Operator interface terminals), and associated electrical components 480 VAC and bellow.
* Creation of SOP’s and other documentation as it relates to calibrations, inventory and work flow within the SCADA group.
* PLC programmer in RSLogix 500 and 5000 for Micro, Compact, and Control Logix systems used in the water and waste water industry.

Instrumentation & Controls Technician, Engineer level 2(06/2015-02/2016)

[FEI Engineers Inc.](https://www.linkedin.com/company/29497?trk=prof-exp-company-name)**,** Greenwood Village, Colorado

* PLC programmer in RSLogix 500 and 5000 for Micro, Compact, and Control logix systems used in the water and waste water industry.
* HMI, SCADA and database design using Ignition from Inductive Automation, Allen Bradly controllers and mySQL databases.

##### One-line and three-line electrical drawings, PLC cabinet design, VFD pinouts and programing, and panel and field wire diagrams.

##### Learned basics of: Lighting panel design; radio telemetry mapping for WLAN system design; municipal system requirements; and arc-flash studies using SKM modeling

[Instrumentation & Controls Engineer level 1](https://www.linkedin.com/vsearch/p?title=Instrumentation+%26+Controls+Engineer+level+1&trk=prof-exp-title)(09/2014-02/2015)

[Merrick & Company](https://www.linkedin.com/company/29497?trk=prof-exp-company-name)**,** Greenwood Village, Colorado

* Work with multiple engineering disciplines to generate the best instrumentation and controls for a given clients 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 Bradly 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 used 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