

07/02/2024

Control System Engineer (Automation).



CONTACT

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SKILLS &  
ABILITIES

- SIEMENS SIMATIC  
MANAGER PCS7, STEP7
- SIEMENS S7-1200/S7-300/S7-  
400/H/F/HF Systems  
(hardware/software)
- SIEMENS SIMATIC WINCC  
(SERVER/CLIENT) SCADA  
System
- SIEMENS TIA PORTAL
- SIEMENS SIMATIC WINCC  
FLEXIBLE, WINCC COMFORT
- WINCC scripting (VBS, ANSI-  
C, VBA)
- ABB System 800xA DCS
- HIMA Smart Safety System
- ESD
- EcoStruxure Control Expert  
(Unit Pro)
- AVEVA Plant SCADA

Experienced and results-driven Instrumentation and Control Systems Engineer with over 10 years of expertise in designing, implementing, and optimizing automation systems. Proven ability to enhance system performance, lead commissioning projects, and manage complex control systems infrastructure. Skilled in PLC, DCS, SCADA systems, and control systems integration, with a strong track record in troubleshooting, system optimization, and collaboration across cross-functional teams. Committed to ensuring operational excellence, reliability, and safety compliance.

EXPERIENCE

Instrument and Control Supervisor | Stelo Group (Lithium de Mali SA)  
Jul 2024 – Now

- Lead the commissioning of control systems, including testing, troubleshooting, and resolving any issues before the system goes live.
- Oversee the installation and configuration of control systems, ensuring proper connectivity between hardware and software components.
- Integrate control systems with other operational technologies (OT) such as sensors, actuators, machinery, and SCADA systems to achieve seamless automation.
- Provide hands-on support during system start-up to ensure smooth operations and minimal downtime.
- Design, implement, and maintain control system projects (PLC, SCADA) to optimize operational performance.
- Provide expert technical support to maintenance and production teams, ensuring timely resolutions.
- Contribute to the creation of standards, best practices, and system procedures.
- Train plant operators and field technicians on the use and troubleshooting of control systems to improve operational knowledge.

Automation Platforms: SCHNEIDER

Systems control technical coordinator | Koniambo Nickel SAS (New Caledonia)  
Apr 2023 – Jul 2024

- Collaborated with operations and maintenance teams to achieve production targets and ensure equipment reliability.
- Recommend and implement improvements to optimize system performance, energy consumption, or operational cost-efficiency.
- Managed PLC hardware and software upgrades, maintaining operational efficiency.
- Developed and modified automation programs to meet operational needs, ensuring adherence to MOC protocols.
- Led the design, execution, and commissioning of control system projects (DCS, PLC, SCADA).
- Provided technical support and guidance to maintenance and production teams.
- Conducted detailed investigations of process incidents and implemented corrective measures.

Automation Platforms: ABB, SIEMENS, HIMA

- GX Programmer
- RSlogix 500/5000

- Python Programming

- Profibus DP/Modbus  
/Fiber/Ethernet networking

- PROTUNER (PID Tuner)

- Control panel wiring

## COMMUNICATION

- Good oral and written communication skills (English , French and Malagasy)
- Strong team player
- Good capacity to communicate with others
- Good team leader
- Ability to work alone or/and with a team
- Good capacity to work under pressure

### Head Engineer Control System | Ambatovy DM SA (Madagascar)

Nov 2022 – Apr 2023

- Work closely with the Operation and Maintenance sector in order to deliver production targets.
- Provide mentorship to junior engineers or technicians and help them develop the necessary skills to handle control systems effectively.
- Led control system software and hardware upgrades (PCS7 V8.1 to PCS7 V9.0, S7-417H to S7-410H), ensuring minimal downtime.
- Managed 24/7 reliability of control systems infrastructure, including hardware, software, and networking.
- Collaborated with production teams to optimize process controls and improve control loops.
- Developed and modified automation programs based on operational needs and applied MOC procedures.
- Designed, executed, and commissioned new control system projects (DCS, PLC, SCADA).
- Delivered expert technical support and provided strategic solutions to process incidents.
- Conduct hazard and risk analysis of control systems to ensure safe operations, especially for critical infrastructure (e.g., process control in hazardous environments).
- Create and maintain detailed documentation, including system architecture diagrams, software logic documentation, and user manuals.

**Automation Platforms:** SIEMENS, Allen-Bradley, OMRON, SCHNEIDER ....

### PAL Control System Engineer | Ambatovy DM SA (Madagascar)

Dec 2017 – Nov 2022

- Managed and maintained control systems infrastructure for maximum operational uptime.
- Collaborated with production teams to optimize process control strategies, including loop tuning and system improvements.
- Developed and modified automation programs, ensuring operational efficiency and compliance with MOC.
- Designed and commissioned control system projects (DCS, PLC, SCADA) for enhanced system integration.
- Provided ongoing technical assistance to maintenance and production teams.
- Conducted in-depth investigations of process incidents and provided corrective action plans.
- Contributed to the preparation of standards, system procedures, and operational guidelines.

**Automation:** SIEMENS, Allen-Bradley, OMRON, SCHNEIDER ....

## **Control System Specialist | Ambatovy DMSA (Madagascar)** **Oct 2014 - Dec 2017**

- Troubleshoot and resolved issues with control systems (DCS, PLC), ensuring smooth plant operation.
- Monitored and optimized critical automation systems (network, servers, HMIs) to prevent downtime.
- Keep track of performance controllers, servers, and networks.
- Apply the necessary bypass and procedures.
- Managed backups and regular updates for distributed systems (PCS) and PLC programs.
- Regularly update documentation related to the program.

**Automation:** SIEMENS, Allen-Bradley, OMRON, SCHNEIDER ....

## **Instrument technician | Ambatovy DMSA (Madagascar)** **Oct 2012 - Oct 2014**

- Installed, calibrated, maintained, and troubleshoot a wide variety of instruments in a high-demand process environment.
- Ensure that all installed instruments and systems are functioning correctly before going live.
- Conduct regular inspections and servicing of instruments to ensure optimal performance. Replace worn-out components as necessary
- Follow and execute preventive maintenance schedules to minimize downtime and extend the lifespan of equipment.
- Conduct regular inspections and servicing of instruments to ensure optimal performance. Replace worn-out components as necessary.
- Investigate and identify issues in control systems, sensors, or instruments using diagnostic tools, manuals, and technical knowledge

**Instrument:** Endress+Hauser, Rosemount, Flowserve, Mogas valve....

## **High precision mechanical | Stettler Sapphir e AG (Mauritius)** **Feb 2008 - Feb 2012**

- Programmed, maintained, and operated high-precision numeric machines (grinders, polishers), ensuring machine performance and quality control.

## **EDUCATION**

**Master sciences et techniques de l'ingénieur en Systèmes Temps Réel**  
**I.S.G.E.I (Institut Supérieur en Génie Electronique Informatique)**  
August 2007

## CERTIFICATION

**Automotive Cybersecurity**

**EXIDA Current Cybersecurity Practitioners (CSP)**

Mar 2022

**AI Programming with Python Nanodegree program (UDACITY)**

May 2021

**SIEMENS TIA-MICRO1 & TIA-MICRO2 S7-1200 Micro & S7-1200 Micro Advanced courses**

Jul 2019

**MICHAEL BROWN CONTROL ENGINEERING PROCESS CONTROL ENGINEERING Course (PRACTICAL PROCESS CONTROL Part 1)**

Fev 2019

**SIEMENS PCS7 SAFETY SYSTEM training**

Sep 2018

**PROCENTEC TRAINING CPE (Certified Profibus Engineer)**

Jan 2018

**SIEMENS ST-PCS7 SYS training**

Sep 2018

**BASIC INSTRUMENTATION TRAINING**

Aug 2013

## REFERENCES

Will be supplied upon request.