

JAMAL BENMBARK

Industrial Automation Technician · Electrotechnician

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Shawinigan, Quebec · Open to roles across Canada and internationally

PROFESSIONAL SUMMARY

Industrial automation and electrotechnical professional with over 8 years of manufacturing experience spanning preventive and corrective maintenance, fault diagnosis, instrumentation, PLC programming and commissioning. Comfortable working on operating production equipment as well as new installations, with a strong focus on process understanding and safe execution.

TECHNICAL SKILLS

PLCs & control	Siemens; Allen-Bradley (Studio 5000, RSLogix 5/500); Omron; logic changes and PID control.
HMI & SCADA	WinCC, FactoryTalk View, RSView, Wonderware InTouch / OMI; HMI and SCADA development.
Electrical systems & drives	Power and control circuits, motors, PowerFlex and ABB ACS580 drives, drawings.
Instrumentation	Sensors, transmitters, calibration, HART, loop troubleshooting and P&IDs.
Maintenance & networks	Troubleshooting, thermography, lockout/tagout, testing, EtherNet/IP, PROFINET, Modbus, OPC UA.

PROFESSIONAL EXPERIENCE

Arbec Dec 2024 – Present
Industrial Electrical Technician / Electrotechnician · Shawinigan, Quebec

- Troubleshoot production-line electrical equipment, industrial instrumentation and automation systems.
- Diagnose PLC sequences, motor drives, sensors and controls; perform preventive and corrective maintenance.
- Support equipment upgrades and an industrial dryer control migration from RSLogix 5 to Studio 5000.

Domtar (formerly Resolute Forest Products) Nov 2023 – Jul 2024
Electrical & Instrumentation Technician · Alma, Quebec

- Troubleshoot electrical and instrumentation systems; performed preventive maintenance and calibration.
- Carried out thermographic inspections and safety-controlled interventions with operations teams.

Lesieur Cristal – Groupe Avril Nov 2017 – Aug 2023
Automation Supervisor · Casablanca, Morocco

- Programmed PLCs and operator interfaces; supported industrial controls, instrumentation and maintenance.
- Selected technical equipment and contributed to automation and modernization projects, testing and commissioning.
- Diagnosed production-system faults and coordinated interventions according to project needs.

SELECTED INDUSTRIAL PROJECTS

OLEOSEN · Dakar, Senegal

Oct 2022 – Mar 2023

New soap manufacturing plant (2,500 m²; reported investment > MAD 65 million; reported capacity > 30,000 tonnes/year). Coordinated 5 electricians during installation; worked on electrical circuits, instrumentation, supplementary automation and tests with Ballestra / Mazzoni. Installation finished 2 months before the scheduled launch; that period was used for start-up testing.

Industrial wastewater treatment plant

Lesieur Cristal

Siemens S7-1500 programming, SCADA, equipment selection, installation coordination and start-up. Company-reported plant capacity: 1,500 m³/day in 2019; 40% biological capacity expansion (facility context, not a personal performance claim).

Liquid soap & shampoo preparation workshop

2018

Full automation scope for 2 preparation lines: hardware selection, 100% of Siemens S7-1500 programming, SCADA, AS-i field network, testing and commissioning. The shampoo packaging line formed part of the wider workshop.

MECCANOPLASTICA bottle tester

Machine upgrade

Replaced the PLC with a Siemens LOGO!, installed new sensors and developed a new HMI for the bottle inspection machine.

Other selected work

Morocco & Quebec

ESQUERDA cartoner (Omron CQM1, 2 formats), EGFI boiler HMI monitoring, HAZOP functional analysis and Arbec dryer migration to Studio 5000.

EDUCATION & TRAINING

- Electro-Instrumentation and Control Certificate — Cégep de Saint-Félicien, Quebec (2023)
- Professional Competency Certificate in Mechatronics — ISIC, Casablanca
- Bachelor's-level Licence in Physics and DEUG — Ibn Zohr University, Agadir

SAFETY & QUALIFICATIONS

Arc flash, confined spaces, working at heights, WHMIS, overhead crane/rigging, lifting platforms and material handling. Quebec non-construction electrical qualification in progress; apprentice card held.