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Experience Overview

In excess of 30 years of progressive technical experience including Instrumentation and Control (I&C) Systems Installation, Calibration, Commissioning, Programming, Engineering, and Project Management. Experience in I&C Systems spans from pneumatic instruments to Distributed Control Systems (DCS) and Programmable Controls (PLC), such as Honeywell, Bailey, ABB, L&N, Fisher, Modicon, and Reliance. Management experience including retrofitting / upgrading, expansion, and New Construction Projects in industries such as Steel Making, Environmental Systems, Water Treatment, Gas / Petroleum, Manufacturing, and Power Generation. Familiarity working at remote locations with over 15 years of experience at various international projects. Accustomed to managing a project from initial development through commissioning to final testing and client acceptance.

INDUSTRY EXPERIENCE

Industry	Process	Specific Skills
Steel	BOF, Blast Furnace, Coke Ovens	I&C Technician
Mining	Uranium Mill to Yellow Cake	I&C Supervisor
Environmental	Waster Water, Oil Recovery	DCS and PLC Programming/Engineering
Water Treatment	Ultra Pure, Potable, Demineralization	DCS and PLC Commissioning/Engineering
Petroleum	Refining	Upgrade, Plant Start-Up, Maintenance
Gas	Natural Gas Distribution	I&C Technician
Power Generation	Simple/Combine Cycle and Coal	DCS and PLC Commissioning/Programming
Automotive Manufacturing	Painting and Assembly facilities HP Robotics & Assembly Line	PLC Commissioning/Programming PLC Commissioning/Programming

PROFESSIONAL EXPERIENCE

MICRON GROUP INC. – Hamilton, Ontario

Founder & Project Manager

Manage & lead various Electrical, Instrumentation Engineering, Programming, & Manufacturing-related engagements for customers across the world. Handle negotiations, quoting, designing, engineering, installation & manufacturing of high-tech equipment. Projects vary in size from \$10K to \$500K. Completed projects include:

Vendor	Location
ABB (Bailey Controls)	Cleveland, OH
GACO	WAPDA, Pakistan; CAMI, Ingersol, ON
General Electric	TBG Co-Gen: Long Island, NY; Redding Power Plant Co: CA; Burney Forest Products: CA; Stanford University: CA.
Toyota Motors	Cambridge, ON
Babcock & Wilcox	Western Energy, Carson, CA
SGP-VA Inc. (Austria)	Shiyan, China
Ocean State Power	RI, NY
Coleman Contracting	Hamilton, ON
National Semi-conductor	Dallas, TX
RTS Group Inc.	Nashville, TN
Anderson Water Systems/ODI	Dundas ON, Macae Brazil, Mexicalli Mexico,

ANDERSON WATER SYSTEMS INC. – Dundas, ON

Engineering Team

Led configuration & start-up of Degremont Clarifiers, R.O. Demineralization, EDI's. PLC controlled by A/B PLC's from 5/20 to 5/80. Worked with MMI's Panelview 1400 & RSView Control Packages. Additional systems involved include: Siemens, GE Fanuc, Honeywell Plantscape, RS Logistics 5000.

RTS GROUP – Nashville, TN

Engineering Team

Part of a team that built a RS Logics 5000 & RS View-controlled assembly line for HP. Responsible for screen upgrades & code changes during FAT.

ABB (Bailey Controls) - Cleveland, Ohio
System Engineer

Performed Bailey/Infi90 configuration, design, testing & in-house FAT for Hong Kong Sewage Treatment Plant.

GACO SYSTEMS LTD. - Brantford, Ontario

Technical Service Representative

Led the mechanical, electrical & instrumentation aspects of erecting water conditioning systems. Managed equipment start-up & programming of PLC's. Conducted system troubleshooting, from controls to water analysis

IMITECH (Private Technical School) – Burlington, ON

Technical Supervisor

Training in PLC's, electricity, instrumentation, microprocessor control & in-program selling & promotion. Provided technical support.

MOHAWK COLLEGE OF APPLIED ARTS & TECHNOLOGY - Hamilton, ON

Teaching Master

Teaching Master in the Instrumentation Mechanics program. Subjects taught ranged from Electrical Basics to Honeywell TDC 2000 Utilization. Active participant in curriculum development & Industry Liaisons.

IMICON CONSTRUCTION LTD. – Burlington, ON

Superintendent

Responsible for calibration, commissioning and start-up at the following projects:

Company	Project	Location
Stelco	LED, Blast Furnace, Moore Controls, L&N DCS	Nanticoke
Denison Mines	Coarse ore grinding, Fisher AC 2 System	Elliot Lake
Allied Chemicals	Energy Management	Amherstburg

STATE ELECTRIC LTD (Liquid Air, Hamilton, on 600 ton O₂ Plant) - Stoney Creek, ON

Instrumentation Foreman & Outside Sales Representative

As Instrumentation Foreman, responsibilities included construction, calibration and loop checks of Taylor instruments, Promac controllers and computer systems. As Outside Sales Representative, was responsible for selling service contracts in the Southern Ontario region.

TEXACO CANADA OIL REFINERY –

A.G. McKee, M.M.R. CONSTRUCTION LTD. – Nanticoke, ON

Instrumentation Foreman

Led the installation of instrumentation in Boiler House & Cat Area. Built drawings & performed all calibration.

SHELL CANADA OIL REFINERY/CATALITIC ENTERPRISES LTD. – Oakville, ON

Senior Instrument Technician

Analyzed, repaired & calibrated lab tools & electronic instrumentation, including Honeywell E-TOS system & electronic boards.

GOODYEAR CANADA – Toronto, ON

Senior Instrument Technician

Responsibilities included instrument repair & calibration. Worked with various lab instruments, performing maintenance & repair and designing & installing new processes.

EDUCATION

- Sir Winston Churchill, Instrumentation
- Mohawk College, Instrumentation and Automatic Controls
- Southern Alberta Institute of Technology, Automatic Controls and Power Engineering

MEMBERSHIPS

- ISA Senior Member
- Past National and District Kinsmen Officer – Awarded Lifetime Membership

LANGUAGES

- Basic Fluency Brazilian Portuguese
- Fluent Italian
- Basic Fluency Spanish

- Conversational Bahasa Indonesia