

# BC Automation

## Progressive Modernization for Legacy Industrial Systems

### Tech Primer - 07/04/25

You don't have to rip and replace to modernize.

BC Automation delivers a secure, phased path to upgrade legacy SCADA, PLC, DCS, and MES systems — without disrupting operations. By analyzing data pathways, structuring telemetry with SPA™, and deploying edge-native AI with MetaLoop and SDA™, we help manufacturers transition confidently to Industry 5.0 while minimizing cybersecurity exposure during the transition.



**PROBLEM:** Legacy systems are vulnerable, opaque, and misaligned.

- Uncontrolled telemetry creates security risks and blind spots
- Data leaks, vendor access, and missing metadata undermine trust and compliance
- IO mapping, resolution loss, and poor configuration limit operational insight
- Rip-and-replace proposals often stall due to cost, downtime, and risk

**SOLUTION:** Modernization through structured insight and modular intelligence.

- Conduct OT Penetration Testing to expose gaps in data flow and architecture
- Apply SPA™ to secure, structure, and validate telemetry at the source
- Correct misaligned IO and buffer points with Fractional Historization
- Layer in MetaLoop to augment control logic with adaptive tuning and diagnostics
- Deploy SDA™ to establish secure, decentralized edge autonomy — at your pace

**OUR IMPACT:** Preserve what works. Fortify what doesn't. Build toward the future.

- Reduce risk without halting operations
- Restore trust in data and control reliability
- Enable secure, edge-driven AI with full operator context
- Improve uptime, reduce manual intervention, and boost modernization ROI
- Establish a scalable path to Industry 5.0 — on your terms

95+

clients served

625+

unique processes automated

\$3.8B+

client dollars saved

**"A huge asset to any company looking to improve their cost and reliability."**

Chris Whitehair  
SVP Global Operations at SunOpta

**"[BC Automation's] solutions are most thorough and comprehensive."**

Ned Mitenius  
Founder & Sr Consultant at Periscope Consulting

**Let's Transform Your Manufacturing Together.**



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