

NJCSI (Pty) Ltd Company Portfolio 2013



Business Partner



MISSION STATEMENT

Delivering excellence in industrial IT and control systems
to facilitate world class production environments.

Company Profile Overview

- Process Control Engineering**
- DCS Engineering**
- Automation Specialists**
- Control System Integration**
- Project Management**
- Industrial & Niche Business IT**
- Advanced Networking**
- Specialist ISP Services**



INTRODUCTION

NJC is a professional engineering service provider of process control, automation and information systems. We design and install control and management systems to meet specific customer requirements for performance and reliability.

Since its inception in 1997, NJC has established a reputation in the automation industry in South Africa. Companies such as ABB, Rockwell Automation and Emerson have chosen NJC as their channel partner for the implementation of their products. Based on a solid engineering background and diverse resource base of experienced professionals, NJC provides a comprehensive service to both industrial and corporate companies.

NJC Professional Services consist of:

Automation:

NJC has a team of highly qualified automation specialist engineers, who have years of project experience. The engineers all have university degrees / technikon diplomas accredited to ECSA and internationally recognised. The strong IT background of these key resources helps to ensure seamless integration between plant and business – a must for the success of any manufacturing industry today.

Industrial IT:

The business needs of industrial enterprises are also catered for in the most professional manner. NJC provides scalable solutions for growing industrial companies to suit budgetary constraints, whilst not compromising on quality and reliability.

Software Design:

NJC has significant resources at its disposal to ensure optimum software design. NJC is a subscriber to the Microsoft Developers Network which gives access to the latest technology before it is publicly available.



THE NJC TEAM

Chief Executive – Sarane Richard-Coombes

Staff of 28 highly qualified and experienced Engineers, IT specialists and support administration, with staff in Gauteng and KZN, providing for customer needs throughout Southern Africa

Sarane Richard-Coombes



Chief Executive

CEO and founder, Sarane Richard-Coombes graduated from the University of Natal in 2000 with a BSc. degree in Electrical Engineering, specialising in control and automation.

Sarane did 3 years of vac work and training at Lever Ponds in Maydon Wharf where he gained the trust and respect of the Managers and Engineers at the factory. On graduating from university Sarane was offered a job at Unilever which he turned down, opting to open his own business and do contract work for Unilever.

Sarane has 13 years of engineering experience at the Unilever factories in Durban, as well as their factory in Boksburg.

In 2002 Rockwell Automation requested Sarane to be part of their Batch project team at SAB Chamdor in Krugersdorp. Here he had the opportunity to work with top American Rockwell Engineers on the project and gained valuable experience. Rockwell Automation subsequently contracted NJC to work at Anglo Platinum in Rustenburg; this very successful project was completed in two years.

In 2005 Sarane teamed up with ABB to install two DCS systems – at Revertex Chemicals and Voermol feeds. This took NJC to the next level, adding diversity to an already strong base.

Presently Sarane heads up NJC in the role of chief executive and drives the business development aggressively, with solid growth per annum over the past 10 years

Engineering Project Experience:

- Upgrade of FIXBOS Batch control system to RS Batch v4.0, FIX32 SCADA systems to RSView32 as well as PLC5 and Modicon PLCs to Control Logix PLCs at Unilever Maydon Wharf
- Design and implementation of Batch control systems for Sonolator process, emulsions plant and APAD plant in Phoenix. Design of PLC to PLC communications protocol and implementation at Unilever
- Assistant commissioning engineer at SAB Chamdor for RS Batch 6.0 implementation
- S88 standard consultant for Batch implementation at Anglo Platinum PMR in Rustenburg
- ABB 800xA and Freelance 800F design and commissioning at Revertex Chemicals, Tongaat Hulett's Voermol Feeds Plant
- Project Management for DCS upgrade at BCL Botswana, Northam Platinum Mine, Mittal Steel Sinter Plant as well as Karbochem Rubber Plant in Newcastle
- Project Management for 800xA DCS Greenfields implementation at Adcock Ingram, including integration with Oracle ERP.



ENGINEERING CAPABILITIES

- NJC's engineering services improve the efficiency of clients' production processes, providing a clear picture of the processes and management thereof.
- NJC's experienced automation specialists cover all areas within automation engineering and industrial IT, including:
 - Management Information systems (MIS)
 - Batch System Integration according to S88
 - Management Execution systems (MES)
 - ERP Integration according to S95
 - Security Integration according to S99
 - Process Control & Optimization
 - Electrical & Instrumentation Engineering
 - Turnkey Industrial Automation Projects
 - PLC/SCADA Systems
 - Distributed Control Systems
 - Systems Compliance
 - Education & Courses



INDUSTRY EXPERIENCE 1

- **Unilever**

- **Personal Products Factory**

- 1998: RS Batch 4.0 implementation – upgrade from FIXBOS
 - 2002: Upgrade from v4.0 to v6.0
 - 2002 – Present: RS View 32 implementation – upgrade from FIX32 running on WinNT
 - 2002 – 2005: RS Logix 5000 implementation – upgrade from PLC5, on the following processes: Creams, Liquids, Lotions, Universal, Sonolator, Bulk Storage and Services, Roll-On, Alcaball, Emulsions, CIP, and PJ.
 - 2004: RSSQL – ASP reporting functionality in a standard web browser
 - 2008: Complete Pre-weigh System re-design, and implementation, using web interface incorporating reporting, and RS Batch interfacing.
 - 2008 – Design, and implementation of RS Batch Cascade Batching System.
 - 2004 – Present: Service Level Agreement for maintenance of systems.
 - 2010 – upgrade to FT Batch 11 including full cloud server system on VM ESX4

- **Personal Wash Factory**

- 2003: RS Batch 6.0 implementation – upgrade from v4.0
 - 2003: RS View implementation – upgrade from RAS system
 - 2003: RS Logix implementation – upgrade from v6.0 to v11.0
 - 2004 – 2005: RSSQL implementation – ASP based management information system
 - 2005: RS Batch 6.0 implementation – Bath Soaps Line 2
 - 2005: Energy Centre upgrade – from Modicon to CLX – FIX32 to RS View 32
 - 2006: SMS Alarming functionality for critical process alarms
 - 2008: Power usage monitoring, and control, system implementation
 - 2004 – Present: Service Level Agreement for maintenance of systems.
 - 2011 – upgrade to FT Batch 11 including full cloud server system on VM ESX4

- **Phoenix Aerosol Factory**

- 2000: RS Batch 4.0 implementation in APAD Process
 - 2004: Upgrade APAD Process from v4.0 to v6.0
 - 2000: RS View 32 implementation– Greenfields – APAD/Deo process
 - 2001: RS Historian implementation
 - 2004: Upgrade from RS Historian, to ASP Reporting
 - 2005: PolyComp display software development – Line stats live from PLC for line operators to view

- **Boksborg Liquids Factory**

- 2006 – Present: ASP.net based MIS reporting system – Batch reports, Process trends and TPM report management implementation, and maintenance
 - 2007 – Present: Leopard MIS - ASP.Net programming for Leopard project to report on OEE

INDUSTRY EXPERIENCE 2

- **South African Breweries**
 - **Krugersdorp Chamdor Brewery**
 - 2002: RS Batch 5.0 Implementation – Greenfields
 - 2002: Wonderware Implementation
 - 2002: Modicon Implementation

- **Anglo Platinum**
 - **Rustenburg PMR Refinery**
 - 2003: RS Batch 6.0 implementation
 - S88 Consulting including training
 - Commissioning assistance on SAICOM

- **Umgeni Water**
 - **Pinetown Central Command**
 - 2005: Assistance with FIX32 to iFIX Upgrade

- **Revertex Chemicals**
 - **Jacobs Plant**
 - 2005: S88 Consulting
 - 2005: CFS Design for K6
 - 2006: CFS Design for K1&5
 - 2006: Pilot plant Freelance 800F Installation and Engineering
 - 2006 : K6 - Complete System upgrade using ABB 800F automation system
 - 2007-Present: Service Level Agreement for maintenance of systems.
 - 2009 - 2010: K1&5 Complete system upgrade to ABB DCS
 - 2012: K7 Complete system upgrade to ABB DCS

- **Tongaat Hulett Group**
 - **Voermol Supplementary Feeds Plant - Maidstone**
 - 2007: Complete Control System Upgrade using ABB Control System
 - 2007 - Present: Service Level Agreement for support and maintenance of systems.
 - 2008: LM2 system expansion
 - 2012 – upgrade to ABB Batch 5 including full cloud server system on VM ESX4

 - **Centrifuge Upgrade - Mafambisse**
 - 2007: Complete Upgrade of PLC System
 - 2009: Ongoing expansion and remote support

INDUSTRY EXPERIENCE 3

- **SAPPI Group**
 - **SAPPI - Ngodwana**
 - 2008: Network Infrastructure Troubleshooting
 - 2008: SLA support onsite
 - **SAPPI SAICCOR – Umkomaas**
 - 2008 – 800xA Installation, and commissioning

- **Northam Platinum**
 - **Northam**
 - 2008 - UG2 Crusher - New DCS installation, and commissioning .
 - 2008 - PGIM – Pilot PGIM Installation, and Design
 - 2008 - Refrigeration Plant Full DCS Upgrade
 - 2008 - Refrigeration Plant PPB Upgrade
 - 2008 - Weighing System Full DCS Upgrade
 - 2009 - PGIM rollout plant wide
 - 2009 - CSense application interface using MIS
 - 2009 – Present: Service Level Agreement for maintenance of systems.
 - 2010 – Upgrade of Smelter DCS / BMR DCS
 - 2010 – Installation of DCS on Converters / Hoods
 - 2010 – Granulation system DCS implementation
 - 2010 – IT System rebuild / control room refurbishment
 - 2010 – Vent Fans DCS upgrade / refurbishment
 - 2011 – Generator system DCS integration
 - 2012 – Smelter / BMR system upgrade

- **Bamangwato Concessions Limited (BCL)**
 - **Selebi Phikwe, Botswana**
 - 2007 – Converters - Complete DCS Upgrade to AC800F
 - 2008 – Converter Hoods - Extension of current DCS implementation
 - 2008 – Upgrade of all ABB PPB operator workplaces to ABB DigiVis
 - 2008 – Upgrade of ABB PPB Historian to ABB PGIM
 - 2008 – Present: Service Level Agreement for maintenance of systems.
 - 2011 – Major smelter overhaul refurbishment – TATI DCS upgrade
 - 2012 – E Furnace optimisation using CSense

INDUSTRY EXPERIENCE 4

- **Mittal Steel**
 - **Sinter Yard Machines - Newcastle**
 - 2008: Complete DCS Upgrade to AC800M on 800xA
 - 2011: Tippler / Gripler DCS installation
 - **Blast Furnace Upgrade - Vanderbijlpark**
 - 2007: Freelance 800F Upgrade from v4 to v8 and PID tuning
 - 2009: PPB system upgrade from V1.1 to V2.0

- **Anglo American Research Labs**
 - **Johannesburg**
 - 2007: Peruke Project - Pilot Plant implementation of new leaching process using 800F

- **KarboChem**
 - **Newcastle**
 - 2008 – Present: Full DCS Upgrade from Contronic P to Freelance 800F

- **Evonik Peroxide**
 - **Amanzimtoti**
 - 2007 – Present: Service Level Agreement for support and maintenance of systems.
 - 2010 – Full DCS upgrade and expansion to Hiprox and SMR Plants
 - 2010 – Instrumentation supply and installation for capacity expansion project.

- **Kelvin Power**
 - **Kempton Power Station**
 - 2009: DCS upgrade from PPB V1.1 to V2.0 on Melody Controllers

- **Transalloys**
 - **Witbank Plant**
 - 2009-2010: Furnace 7 DCS upgrade to Freelance
 - 2011: Various small upgrades and SLA
 - 2011: Greenfields DCS implementation on Furnace 6
 - 2012: Minor expansion projects on F7

INDUSTRY EXPERIENCE 5

- **Exxaro**
 - **Thin Film Pilot Plant - Pretoria**
 - 2008 – Present: AC700F Implementation
 - **Furnace - Pretoria**
 - 2011 – AC800F upgrades and commissioning support

- **Adcock Ingram**
 - **HVL Plant - Clayville**
 - 2011-2012: Complete greenfields DCS integration with AC800M on 800xA
 - 2012: ERP integration between Oracle ERP and 800xA using ECS.

- **Nampak Glass**
 - **Glass Works - Germiston**
 - 2012: Furnace 2 Project – Full DCS upgrade and IT infrastructure overhaul
 - 2012: Hirschmann network / VPN implementation – Hivision 5 – 30 switches

ENGINEERING SYSTEMS SUPPORTED

– **ABB**

- AC700F Controller Engineering Toolset, v6,7,8,9
- AC800F Controller Engineering Toolset, v6,7,8,9
- AC800M Control Builder M Engineering v4 and v5
- AC800M Compact Control Builder
- Panel Builder Software
- 800xA Base Control System, v4 and v5
- 800xA Batch Control System , v4 and v5
- PGIM Information Management System, v5
- ECS and Workflow Manager
- CPM Plus

– **Rockwell Automation**

- RS Batch v4, 5, 6, 7, 8,10,11
- RS View 32 and RS View SE
- RS Logix 5, 500, 5000 to v20
- RS SQL v5, 6, 7, 8
- RS Historian / Vantage Point
- RS Linx, RS Networkx for DeviceNet, ControlNet and Ethernet
- Panelview – From PV500 to Process View

– **GE Fanuc**

- Intellution FIX32 v6, 7
- iFIX v2, 3
- FIXBOS
- iBatch v4, 5

– **Other Automation systems**

- CSENSE Factory Optimization Packages

– **Microsoft**

- WinNT4.0, Win2000, Win2003, Win2008, WinXP, Win7,
- Visual Studio 6 – ASP – MS SQL 2000
- Visual Studio.NET – ASP.NET – MS SQL 2005, 2008
- Data backup and recovery specialists



IT SALES AND SUPPORT SERVICES

Servers

- HP Premier Channel Partner
- DELL and IBM reseller
- Symantec reseller
- Acronis reseller
- Active Directory Servers
- HP SAN resellers
- Linux Servers
- VM Ware ESX servers reseller
- Mail, Web, FTP, Proxy Servers
- Remote Access Servers
- File & Print servers
- Redundancy implementation and support
- Support/Maintenance Contracts

Networking

- Hirschmann Certified Partner
- HP Procurve Certified Partner
- Network Installation
- Network Management
- Wide Area Networking
- Fire Walls
- VPN Solutions
- VOIP PABX Solutions
- IP Cam recording and surveillance systems



IT SALES AND SUPPORT SERVICES

Workstations and Laptops

- HP Premier Channel Partner
- DELL and IBM reseller
- Symantec reseller
- Acronis reseller
- VM Ware reseller
- Adder / Rextron KVM Reseller
- Redundancy implementation and support
- Support/Maintenance Contracts

Internet

- Corporate Email Solutions
- Internet Access for LAN and WAN
- ISDN / Diginet / Leased Lines
- ADSL / WDSL / Lines and bandwidth
- Domain Registration, Hosting and Website Design

General

- Supplier of Computer Software & Hardware
- Supplier of Digital Copier, Faxes Scanners & Printers
- Procurement of specialised IT Hardware
- Industrial Keyboards and Pointing devices
- Industrial 19" Rack solutions