

JOHANNES MARTINUS DE WET

INDUSTRIAL SYSTEMS | PRODUCTION LEADERSHIP | GOVERNED AI

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PROFILE

Trade-qualified boilermaker with approximately 18 years across manufacturing, maintenance, production and operations in South Africa and Australia. I connect physical work, production control and practical digital systems. My experience spans fabrication, plant reliability, production planning, labour allocation, quality, safety, maintenance, reporting and governed use of AI and automation.

I am most useful where information, responsibility or evidence breaks between the floor and the office. I inspect the real process, identify the control point and build the smallest practical system that improves visibility without removing human authority.

CAREER EXPERIENCE

2008-2014 | Heavy materials processing, South Africa

Boilermaker progressing to Technical Manager. Fabrication, welding, breakdown response, preventative maintenance and technical fault-finding across mechanical, pneumatic, hydraulic and legacy control systems.

2014-2016 | Concrete and civil materials, South Africa

Production Manager. Production planning, labour allocation, quality and testing coordination, calibration discipline and traceable production records.

2016-2020 | Pump-station and industrial services, South Africa

Production Manager. Site measurement, 3D modelling, fabrication, installation and commissioning managed as one controlled information chain.

2020-2025 | Australian fabrication, coatings and maintenance operations

Hands-on fabrication followed by production and maintenance leadership. Managed workflow, commercial coordination, plant maintenance, WHS, contractors, reporting and staff development.

2025-present | Multi-department sheet-metal and finishing operation, Hunter Region

Production Manager across laser cutting, CNC folding, fabrication, powder coating, fit-out and dispatch, with clear handovers, bottleneck visibility, mini-batch control and quality gates.

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CORE CAPABILITIES

PRODUCTION & OPERATIONS	INDUSTRIAL & MAINTENANCE
Production planning and sequencing Labour allocation and shift handovers Mini-batch control and bottleneck management Quality gates, traceability and dispatch Operational and cost reporting	Boilermaking and fabrication MIG, TIG and GMAW welding Pumps, pipework, conveyors and ovens Preventative and breakdown maintenance Mechanical, pneumatic and hydraulic fault-finding
DIGITAL OPERATIONAL SYSTEMS	GOVERNED AI CONSTRUCTION
Advanced Excel models Python and PowerShell automation Microsoft 365 and workflow tools Dashboards, state capture and reporting Structured data and document processing	Human approval gates Read-only analysis patterns Evidence and state records YAML and prompt architecture ChatGPT, Claude Code and Codex workflows

SELECTED EVIDENCE

Production flow across six linked departments

A practical operating model connecting laser cutting, folding, fabrication, coating, fit-out and dispatch through handover controls, ownership and quality gates.

Measure, model, fabricate, install, commission

A controlled chain from real site conditions through modelling and fabrication to installation and commissioning, reducing handover loss and field rework risk.

Governed AI website build

A static website delivery method where AI designs, PowerShell executes, machine evidence verifies and the human controls every gate.

QUALIFICATIONS AND WORK RIGHTS

- Trade-qualified boilermaker / fabricator
- Advanced Diploma of Engineering
- Graduate Diploma of Strategic Leadership
- Australian citizen with unrestricted Australian work rights

PROFESSIONAL BOUNDARY

I do not replace licensed engineering, electrical, legal or accounting professionals. I build operational systems, evidence flows and decision support around the authorised people and existing business controls.

Public version: employer and client identities are anonymised. A named application resume can be supplied directly where appropriate.