

Ludolph Van Basten

ludolphvanbasten@gmail.com | 067 867 7447 | Johannesburg, South Africa | Open to relocation nationally and internationally.

SUMMARY

I design, build and deploy intelligent systems that transform complex operational challenges into practical, scalable solutions.

EXPERIENCE

Electronics Manufacturing & Engineering

Started as a CNC drilling operator manufacturing printed circuit boards before progressing into engineering, manufacturing optimisation and quality assurance.

- Worked on PCB engineering, drill file creation, production optimisation, artwork generation and manufacturing documentation.
- Eventually joined the founding team that established a complete electronics contract manufacturing division.
- Engineering
- Manufacturing
- Quality Assurance
- Production Optimisation
- Technical Sales
- Customer Support
- Clients included Denel Aerospace and De Beers Mining.

Industrial Technical Sales

Gauteng, Mpumalanga, Limpopo and Free State

Regional Fluid Technology Specialist.

- Supported mining and industrial customers throughout Gauteng, Mpumalanga, Limpopo and Free State.
- Specialised in hydraulics, pneumatics, power transmission and industrial automation.
- Provided technical consulting, project planning and solution development.

Security Infrastructure

Eagle Canyon Golf Estate

Senior Technical Specialist responsible for the complete technical infrastructure of Eagle Canyon Golf Estate.

- CCTV
- Access Control
- Electric Fencing
- Wireless Networks
- Automation
- IT Infrastructure

Renewable Energy

Led complete solar installations from procurement through commissioning.

- Installed commercial and residential systems including:
- Inverters
- Batteries
- DB Boards
- AC/DC Cabling
- Site Planning
- Fault Finding

AI Systems Engineering

Over the last two years I have transitioned into AI-assisted software development.

- AI workflow orchestration
- Intelligent automation
- Business dashboards
- VPS deployment
- Operational analytics
- Linux infrastructure
- Modular software architecture

TECHNICAL SKILLS

Technical Systems Engineering

AI Assisted Development

Business Process Automation

Solution Architecture

Linux VPS Deployment

Operational Dashboards

Embedded Systems

Industrial Automation

API Integration

Workflow Design

System Validation

Infrastructure Design

Problem Solving

Rapid Prototyping

Technical Consulting

PROFESSIONAL PHILOSOPHY

I don't believe software starts with code. Software starts with understanding. Every successful system begins by understanding the business problem, decomposing complexity into manageable layers, validating each component and integrating everything into a reliable solution. My development methodology focuses on: Understanding → Architecture → System Decomposition → AI Assisted Development → Validation → Deployment → Continuous Improvement

ENGINEERING METHODOLOGY

Unlike traditional software development, I work from system architecture downwards. Every project begins by defining: Business Objective → System Behaviour → Capabilities → Modules → Interfaces → Validation → Deployment. This methodology enables rapid development while maintaining reliability and scalability.

SERVICES

Technical Systems Consulting; AI Automation; Operational Dashboards; Linux VPS Deployment; Business Process Automation; Embedded Systems; Technical Architecture; Prototype Development; Infrastructure Design; Custom Software Solutions

WHY WORK WITH ME

More than twenty years solving technical problems. Strong business understanding. Rapid AI-assisted development. Practical engineering mindset. Ability to decompose complex systems into reliable solutions. Cross-disciplinary

experience spanning electronics, manufacturing, infrastructure and software. Focus on delivering working solutions rather than theoretical designs.

CURRENT STATUS

Available for: Full Time Employment; Contract Engineering; Technical Consulting; Freelance Projects; Remote Opportunities; International Relocation