HD Automation & Control

80 Groenpunt Way

Keidebees

Upington

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ABOUT US

HD Automation & Control was established in 2018. We are based in Upington and aim to service the Northern Cape region. Our objective is to provide technological solutions of Automation and Control systems to the industries, homes, agriculture and businesses in a region which is experiencing immense growth with the recent construction of several renewable energy facilities together with the continuous expansion of agriculture and the other industries.

The company is owned and managed by Hendry Duvenage, an experienced Automation Engineer who has been involved in projects and maintenance activities of several industrial sectors across Africa.
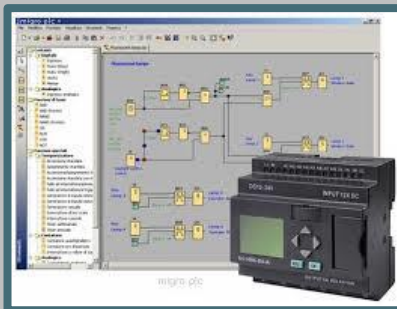
VISION

The vision of the company is to be the preferred locally based service provider and product supplier, providing a solution to our clients' every need in a timely manner without the added complications of travel or logistics from the distant major cities.

We aim to introduce the latest technologies to our customers and be a contact point for solving any related problems that can be encountered. This will be done through building trusted relationships with our customers, delivering continuous support and solutions for development and expansion through the conclusion of Service Level Agreements.
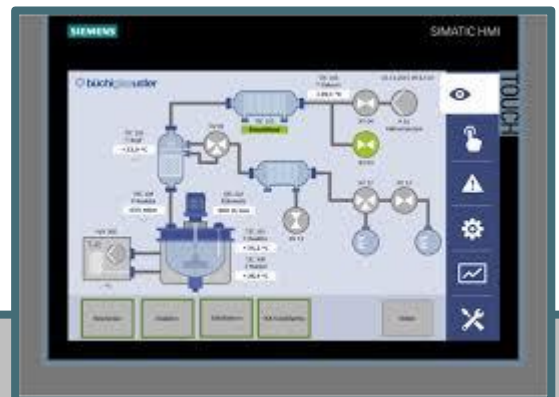
INDUSTRIAL AUTOMATION

We provide Programming, Diagnostics and Supply of spare parts for PLC's from the following manufactures:

- Siemens S7
- Schneider Modicon and Quantum
- ABB
- Allen Bradley
- Omron
- Mitsubishi
- Delta

Some of the SCADA systems we support include:

- Siemens PCS7, WinCC and TIA Portal
- Schneider Vijeo Citect
- Wonderware
- Metso

We are available to work on other systems should the client require

BUILDING AUTOMATION

We service and supply the following systems for your office, home, or business:

- Gate and Door Systems
- Climate Control
- Lighting Control
- Devices Control
- Energy Saving
- Remote Management

SECURITY SYSTEMS

We supply, install and service the following Security Systems:

- CCTV
- Access Control
- Alarm Systems
- Remote Monitoring

AGRICULTURE AUTOMATION

For agricultural operations, we install; service and supply the following types of Systems:

- Irrigation Control Systems
- Water Supply Control Systems
- Wastewater Control Systems
- Condition Monitoring Systems
- Remote Management Systems

CURRICULUM VITAE
Hendry Duvenage

Experience

DCS Engineer
From September 2015
Concentrated Solar Power Plants

- Engineering and Maintenance of DCS Systems on Concentrated Solar Power Plants (Parabolic Trough and Tower).
- Management of Corporate IT infrastructure.
- Duties includes:
    - Implementing Engineering Changes.
    - Process optimisation and improvement.
    - Diagnosis and Root Cause Analysis of Process and Plant problems.
    - Maintenance of DCS Hardware and Software.
    - Implementation of Corporate IT Policy and Procedures.
    - Cybersecurity Implementation.
    - Managing of 2 x DCS Technician.
    - Budgeting and Planning of Spare Parts and Tools Required.

Automation Engineer
October 2011 to August 2015
FMCG OEM Company & System Integrator

- PLC, HMI and SCADA Programming and Commissioning.
- Projects in the Food & Beverage, Mining, Power Generation, Water Treatment and Pharmaceutical industry. Duties ranged from Control System design, procurement, installation, commissioning, project management and after sales support.

Instrument Technician
April 2010 to September 2011
Instrumentation OEM

- Installation and maintenance of Process Automation equipment which includes: Belt scales, Density meters, Point level detectors, Mass Flow gauges and various other.

Control and Instrumentation Pupil Technician
January 2007 to April 2010
ESKOM

- Maintenance on instruments in various areas on power station including Steam
- Generation Plant, Turbine Plant, Water Treatment Plant and Draught Plant.
- Received training on power generation process and control and instrumentation
- systems used in the process. Includes Siemens Teleperm ME and Teleperm XP
- DCS, temperature, pressure, level, flow and various other measuring
- instruments.
- Working on Siemens S5 and S7 PLC's as well as WinCC Scada.
- Winner of Eskom Academic Award for best University of Technology Bursar.

Education

- Grade 12 - Volksrust High School (2006)

- National Diploma in Electrical Engineering Light Current – Tshwane University of Technology (2009)
    - Obtained Academic honours for National Diploma.

- BTech Electrical Engineering (Process Instrumentation) -UNISA (2012)

- Advanced Diploma in Business Project Management – University of Cape Town (2015)

- Master of Engineering in Industrial Automation – Engineering Institute of Technology (EIT) (2018 – In progress)

Skills

- Computer Literacy
    - Office 365 administration and use.
    - SAP Maintenance Modules.
    - Programming in C.
- Corporate and Industrial networks.
    - Hirschmann
    - Siemens Scalance
    - Cisco
- Competent with maintenance and calibration of various instrumentation, valves and Variable Frequency drives.
    - Endress & Hauser flow, level, pressure, temperature.
    - Yokogawa flow, level, pressure, temperature.
    - Siemens flow, level, pressure, temperature.
    - Rotork Actuators
    - Danfoss VFD
    - Siemens VFD
    - Schneider VFD
- PLC, HMI and SCADA programming.
    - Siemens Step 7
    - Siemens TIA Portal
    - Siemens WINCC
    - Siemens WINCC Flexible
    - Siemens T3000, Teleperm XP, Teleperm ME
    - Siemens PCS7
    - Wonderware InTouch
    - Citect
    - Modicon
    - EZAutomation
    - Metso DNA
- Project Management.