

**Curriculum Vitae**

**Johan van der Merwe – Head Draughtsman**



**Profession:** Draughtsman

**Education:**

- N3 Boksburg Technical College
- T1 Germiston Technical College
- T2 Germiston Technical College

**Registrations /  
Affiliations:**

**Expertise**

Johan has nearly 40 years’ experience as a draughtsman almost all of it focussed on the mining industry. He is a recognised industry expert in the design of all aspects of headgears and shafts but he is also has extensive experience in most mine design requirements including conveyors, crushing & screening plants and mine plans. He also has many years’ experience in drawing office procedures and standards as well as training, project coordination, checking and estimating.

Johan is PC literate and fully conversant with the following applications:-

- Microstation V8i
- AutoCAD R2014
- MicroGDS
- Microsoft Office
- Microsoft Project

**Employment History**

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| 2014 - Present | Design Manager & Head Draughtsman | BARA Consulting  |
| 2012 - 2014    | Design Manager                    | RHDHV            |
| 2011 – 2012    | Design Office Manager             | Murray & Roberts |
| 2003 – 2011    | Senior Section Leader             | Murray & Roberts |
| 1999 - 2003    | Design Draughtsman                | RUC Mining       |



|             |                                   |                 |
|-------------|-----------------------------------|-----------------|
| 1998        | Draughtsman                       | Gold Fields Ltd |
| 1997 – 1998 | Senior CAD Draughtsman            | Gold Fields Ltd |
| 1994 – 1997 | Estimator                         | Anglo Platinum  |
| 1981 – 1994 | Senior CAD Draughtsman            | JCI             |
| 1980 – 1981 | Structural/Mechanical Draughtsman | Gencor          |
| 1979        | Structural/Mechanical Draughtsman | Metter Pingon   |
| 1975 – 1979 | Junior Structural Draughtsman     | Dorbyl          |

### **Recent Key Experience:**

#### **Design Manager**

Main duties include the following:

- Project coordination
- Drawing Office Management.
- Mine Planning – Surface and Underground.
- Drawing Office Procedures & Standards.

#### **Design Office Manager**

Main duties include the following:

- Project coordination, Budget Control and Management.
- Drawing Office Procedures & Standards.
- Document Control.
- Training of Junior Draughtsman

#### **Senior Section Leader**

Main duties include the following:

- Project coordination, control and administration.
- Estimating.
- Drawing Office Procedures & Standards.
- Training of Junior Draughtsman

#### **Design Draughtsman/Checker**

Main duties include the following:

- Checking of drawings related to shaft sinking i.e. Shafts , Stations, Headgears, Conveyances & Rope Attachments, Conveyors & Loading Arrangements, Pre-sink Equipment, Sinking Stages etc.
- Drawing office procedures & standards.
- Drawing coordination, control and administration.
- Estimating.



- Preparation of presentations for tender purposes.

### **Draughtsman/Specification Writer**

Duties included the following:

- Presentation of technical concepts and feasibility studies.
- The coordination of all drawing work.
- The formulation of technical specification for the Gold Fields group of mines.
- The preparation of enquiry documentation.
- Maintaining and updating of the technical data base.
- General assistant to all the Consulting Engineers.

### **Senior CAD Draughtsman**

Drafting duties includes the following:

- Plant Layout i.e. R.O.M. Conveyors, Crushing & Screening, Flotation Structural/Mechanical G.A.'s and Detailing i.e. Shafts, Stations, Headgears etc.
- Conveyor Design & Process Flow Diagrams for the following Mines: West Driefontein, East Driefontein, Kloof and Libanon.
- Limited amount of Checking.
- Further development and enhancement of the CAD System.
- Training of Junior Draughtsmen.

### **Estimator**

Responsible for the following:

- The preparation of cost estimates for the Platinum Mines in the Anglo Group. This includes Order of Magnitude Estimates, Preliminary Cost Estimates, Control Budget Estimates & Final Cost Forecasts for the following mines: Rustenburg Section, Amandelbult Section, Union Section, Potgietersrust & Lebowa Platinum Mines.
- Further duties included the coordination of all estimates and preparation for
- Board approval.
- The updating and maintenance of the Estimate Data base.

### **Senior CAD Draughtsman**



Drafting duties included the following:

- The preparation of Plot Plans
- Plant Layout and design.
- Mechanical G.A.'s and Details i.e. Headgears, Skips, Pump Stations
- Piping G.A.'s, Schedules and Details
- Piping Isometrics and Details
- Process Flow Diagrams
- Piping & Instrumentation Diagrams
- Structural Layouts and Detailing
- Architectural work for various mines in the JCI group.

These include Western Area GM, Randfontein Estates GM, South Deep, Joel GM Co. Ltd., Rustenburg Platinum Mines, Potgietersrust Platinum, Consolidated Metallurgical Industries & Lebowa Platinum.

Additional duties included the following:

- Instrumental role played in the design of Headgears and Shafts.
- The development & training of staff on the CAD system.
- The implementation and maintenance of the various Data bases on CAD.
- The introduction of programming for CAD.
- Other duties included acting as Section Leader at times.
- Member of the J.C.I. Staff Works Council from 1994 to 1997

#### **Structural/Mechanical Draughtsman**

Drafting duties included the following:

- Mechanical G.A.'s and Details
- Piping G.A.' and Details
- Architectural Plans
- Plant layout & Structural Detailing

Mainly for Winkelhaak Gold Mine & Sappi Cape Kraft

#### **Structural/Mechanical Draughtsman**

Drafting duties included the following:

- Structural detailing of Tower Cranes & Rope Guided Hoists.
- Other duties included the compilation of material list and a limited amount of estimating.



- The successful introduction and implementation of a new drawing and filing system.

### **Junior Structural Draughtsman**

Drafting duties included the following:

- Drawing Office: - All Structural detailing, compilation of material list and issue of drawings for fabrication.
- Workshop - Assisting Boiler maker - 6 week training period.
- Template Loft - 6 week training period.