



General Information

Occupation	Mechanical and Structural Draughtsman
Age	37
Gender	Male
Nationality	South African
Languages	English, Afrikaans, German
Drivers Licence	Code 08
Own Transport	Yes
Smoker / Non Smoker	Non smoker
Current Employer	Dango & Dienenthal – Hydraulic Equipment Manufacturer (Smelters)
Availability	1 month notice

Professional Profile

Experienced Mechanical and Structural Draughtsman with 10 years' experience in various environments i.e. heavy industry and steel production, materials handling, manufacturing and general fabrication. Currently responsible for the design of machinery used on furnaces. Sound knowledge of drawing practices and detailing. Proficient in Autodesk Inventor and AutoCAD. Strong problem solving and system skills and very mechanically minded. Currently seeking a position as a Senior Draughtsman.

Education

2013 - 2014

Johannesburg

N4 & N5 - Multi-Disciplinary Drawing Office Practice

African Academy

Courses

- Computer Aided Draughting
- General Draughting
- Building Draughting
- Pictorial Draughting
- Mechanical Draughting
- Structural Steel Detailing
- Mechanical & Drawing Office Orientation
- Electrical Draughting

2010

Johannesburg

AutoDesk Inventor Course Caddman

2007

Cape Town

AutoDesk AutoCAD Course Academy of Advanced Technology

1994 - 1998

Pretoria

High School Pretoria Technical High School

Subjects

- Technical Drawing (100%)

Computer Skills

- **AutoDesk Inventor**
Expert
- **AutoDesk Vault**
Fully Competent User
- **Microsoft Word**
Fully Competent User
- **Solid Works**
Some Experience
- **AutoCAD**
Fully Competent User
- **Microsoft Excel**
Highly Skilled User
- **Microsoft PowerPoint**
Fully Competent User
- **AutoDesk iLogic**
Intermediate User

Areas of Professional Expertise

- **Mechanical Assemblies**
Technically minded and able to design and understand mechanical systems intuitively
- **Machining Drawings**
Understand the needs of machinists and machine shop processes
- **Fabrication Drawings**
Understand boilershop principles and ability to detail platework for welding
- **Sheetmetal Bending Drawings**
Very talented at designing bent sheet metal fabrications for easy boilershop fabrication
- **Bill of Materials**
Competent in producing accurate BOMs for streamlined procurement
- **Industrial Plant Layouts**
Proficient in accurately and clearly conveying how equipment will work in a plant
- **Hydraulics**
Good knowledge of working with hydraulic components including valve, motors, hydraulic powerpacks, accumulators, cylinders etc
- **Tolerancing**
A sound knowledge of various limits and fits to apply to machine shop drawings
- **Geometric Tolerancing**
Conversant in the various applications of geometric tolerances
- **Spreadsheets**
Strong record keeping and calculation skills by use of spreadsheets
- **Measuring**
Competent with all measuring equipment
- **Structural Draughting**
Ability to design structures that conform to structural standards
- **Site Surveying**
Good knowledge of how to approach site measurements. Own site measuring equipment, lasers etc
- **Profiling Drawings**
Accustomed to dealing with profile cutting suppliers and supplying complaint DXF format files
- **3D modelling**
Ability to conceptualise assemblies three dimensionally, and apply to CAD models
- **Conceptual Drawings**
Supply drawings for proposal and tender purposes
- **Hydraulic Diagrams**
A working knowledge of hydraulic schematic drawings and able to do basic problem solving in hydraulic systems
- **Isometric Pipework**
Able to easily understand and design pipework systems
- **P&ID's**
Have had exposure to P&ID's
- **Drawing office management**
Strong in the upkeep of drawing numbering systems and relevant documentation

Key Strengths

- **Reliable**
Ability to build trust and credibility with managers and employees
- **Creative, practical and innovative**
Motivated to find practical solutions
- **Flexibility and positive attitude to change**
Can adapt to new environments and systems
- **Logical approach**
Logical approach to analysing problems and determining key issues
- **Long term thinking**
Able to identify and implement systems designed to last for many years
- **Ability to simplify complex tasks**
Take a structured approach to dealing with a project
- **Effective decision making skills**
Able to make a decision when it is required
- **Focus on accuracy and attention to detail**
Constantly checking for correctness
- **Mentoring**
Able to transfer knowledge skills and expertise to junior co-workers
- **Take ownership of projects**
Take pride in work and see projects through to success

Work Experience

2010 - Present

Johannesburg, South Africa

Senior Draughtsman (Present)

Dango & Dienenthal South Africa

Manufacturer of furnace related hydraulic equipment

Duties and responsibilities

- Reporting to the Engineering Manager
- Producing / revising drawings
- Measuring and drawing existing equipment
- Site measurements and site surveys
- Designing of new equipment to customer requirements
- Submitting proposals for prospective clients
- Site and workshop inspections
- Managing drawing office workflows
- Revision / Improvement of legacy designs
- Keeping drawing office compliant with ISO9001:2015 quality management system

Achievements

- Employee of the year (2015)
- New designs of 12 tapping and plugging machines for Sakura (Malaysia) (2013-2014)
Project value R30 Million
- Sold and Designed Launder Crane System for client - Northam Platinum Zondereinde (2015) – Additional to existing project for tapping and plugging equipment.

Reasons for leaving

- Seeking growth opportunities. Have reached maximum growth potential in current position

2008 - 2010

Richards Bay, South Africa

Draughtsman

Heunes Engineering & Project Management

Project management specialising in bulk material handling and steel fabrication

Duties and responsibilities

- Reporting directly to the Project Manager
- Quantity estimations for tender purposes
- Measuring and drawing existing bulk material handling equipment
- Site measurements and site surveys
- Collaborating with client regarding requirements for new projects
- Collaborating with teammates for timely and efficient execution of all deliverables
- Site and workshop inspections
- Managing drawing office workflows
- Composing and managing of project bill of materials (BOMs)
- Ensuring procurement of correct quantities and materials

Achievements

- Implemented first working drawing register and number system

Reasons for leaving

- Head-hunted by Dango & Dienenthal

2007 - 2008

Saldanha Bay, South Africa

Draughtsman & Manager West Coast Draft Hire

Outsourcing of draughting services

Duties and responsibilities

- Directly managing a staff compliment of ± 5 draughtsmen
- Reporting to the director
- Measuring and drawing existing equipment
- Site measurements and site surveys
- Designing of new equipment to customer requirements
- Was official draughtsman for Meltshop dept. at ArcelorMittal Saldanha Steel
- Updating department library
- Checking drawings
- Attending to customer relations
- Compiling quotations on drawing jobs
- Attending to administrative duties

Achievements

- Was promoted to manager after only three months working

Reasons for leaving

- 2008 recession cost WCDH its largest contract. Successfully secured work at Heunes Engineering & Project Management prior to closure of the company.

2003 - 2006

Pretoria, South Africa

Manager Aandklas Restaurant and Pub

Duties and responsibilities

- All duties pertaining to front of house bar operations and sales
- Reporting to the Owner / Director
- Directly managing ± 20 staff members on average
- Performing end of night cash-ups
- Fault finding in case of shortage or surplus stock, cash or turnover
- Opening and locking up shop
- Cash deposits and other banking duties
- Daily and weekly stocktaking
- Organising events (bands, quiz nights, etc.)
- Interviewing, testing and hiring staff
- Writing up staff shift timetables

Achievements

- Implemented a cash-up system targeted at resolving discrepancies in sales, cash and stock. This system has remained in use for years after my departure

Reasons for leaving

- Seeking new career opportunities

Selected Achievements

A selection of notable achievements

- **Employee of the year (2015)**
At current employer, Dango & Dienenthal
- **Implemented new drawing number system (2011)**
New system eliminates possibility of duplication (Dango & Dienenthal)
- **Technical Drawing – 100% (1998)**
Final Technical Drawing Exam (Matric)
- **Documentation System (2014)**
Decreased paperwork requirement by creating an easier, 1 page colour coded documentation system (Dango & Dienenthal)
- **Created drawing register and drawing number system (2008)**
First drawing number system to be created at Heunes Engineering and Project Management (Heunes Engineering)
- **Springbok Scout Award (1998)**
Achieved the top award in Scouting

Selected Personal Projects

- **Sakura (Malaysia) – 12 Furnace Tapping and Plugging Machines**
Design for 12 machines installed at new smelter plant in Malaysia. Project valued at over R30 million.
- **Northam Platinum Zondereinde – 2 Rail mounted tapping and plugging machines (2016)**
Drawings for the manufacture of two rail mounted tapping and plugging machines and additional launder cranes for installation at new plant for Northam Platinum.
- **J02 Conveyor – Port of Richards Bay (2010)**
Create drawings for replacement of dry bulk conveyor belt at Port of Richards Bay. Very successful project due to no additional site work (cutting, welding etc).

Interests

- **3D Modelling**
- **3D Printing**
- **Mathematics**
- **Moulding**
- **Paper Modelling**
- **Space and Technology**

Additional Contact Details

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