

Henk van Aarde

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PERSONAL STATEMENT

I am an adaptable and innovative qualified Mechanical Engineer with 6 years' experience in:

- Design
- R&D
- Site management
- Commissioning
- Project management

I am looking to develop and apply my expertise in new concept development, simulation and validation within a forward thinking company.

KEY SKILLS

Technical Skills

- SolidWorks
- MS Office
- Autocad
- Pro E wildfire

EDUCATION

- University of Johannesburg
B-Eng Mechanical Engineering
- Uplands college
IEB subjects including **Math's (C), Science (B), Computer science (C)**

EMPLOYMENT

Mechanical Engineer

Rula bulk materials handling | Johannesburg | www.rula.co.za

01-2010 - Present

Achievements

- Optimized and furthered the design of a pressure actuated dispensing device to apply parasiticide to livestock and game
- Site engineer/site manager for the refurbishment of the dust handling plant of 3 units of the Kriel power station
- Performed pressure tests on pneumatic conveying pressure vessels.
- Investigated the failure of a high pressure release valve by simulating operation. Failure modes were identified and rectified through use of alternate materials. Wear was also identified as a problem and the design optimized successfully.
- Investigated and determined the cause of submerged scraper conveyor stub shafts seizure.
- Part of the team developing submerged scraper conveyor stub shafts.
- Investigate the reason for poor efficiency from an inclined screw feeder.
- Testing centrifugal fans to determine P-V characteristics.
- Investigation as to the cause of impeller shaft bearings overheating.
- Design of a rotary feeder.
- Design, modeling and generating drawings of a conveyor belt scale.
- Design, modeling and generating drawings of a conveyor belt feeder including chutes.
- Design, modeling, generating drawings and testing of a mechanical lubrication system.
- Design of a 400 000:1 reduction “gearbox”.
- Consulting on the optimization of a pneumatic ash conveying system at Majuba power station.
- Site engineer/manager for plant erection and interface modification at PPC Bulawayo, Zimbabwe.
- Design of an enclosed, horizontal cement mixer for underground mining use.
- Site engineer for the construction of a coal bypass system at the Majuba power station.
- Design of a collapsible tripper on a 3000tph conveyor.
- Design of a scraper conveyor

PERSONAL INTERESTS

Hunting | Fishing | Archery | Mountain biking | Motor biking | Photography | Rock climbing | Target shooting

REFERENCES

References are available on request.

