

Curriculum Vitae: Herbert Poller

PERSONAL DETAILS

BORN 1962
POSITION IN FIRM Mechanical Design Draughtsman
NATIONALITY South African
LANGUAGES English, Afrikaans, German

EDUCATION AND PROFESSIONAL STATUS

- NTC 5 Maitland Technical Collage 1990
- Qualified Fitter and Turner 1985

PROPOSED ROLE IN PROJECT

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KEY SKILLS

Herbert has 23 years of experience in the mechanical engineering and mining trade, of which the past sixteen years has been in the draughting and design environment. With extensive 2D and 3D AutoCAD and AutoCAD Inventor expertise Herbert is able to produce mechanical, piping, structural and architectural drawings. He had his own draughting business before joining PCCE in June 2005.

Key areas of expertise include the following:

- Process flow diagrams, piping and instrumentation drawings.
- Plant layouts, general arrangements, piping and detailing.
- Plant design, equipment and components design and detailing up to manufacture drawings.
- Transfer towers and steel structures, foundations and reinforcing schedules.
- Overland piping systems.
- Underground shaft equipment and components.
- Mechanical and machine drawings.
- Conversant with AutoCAD and Inventor

EXPERIENCE SUMMARY

Phu Kham Copper Gold Project , Laos

Design and detailing the tailings and return water piping systems for Phu Kham Copper Gold Project new tailings dam. This includes pipe route design and detailing and pipe line special equipment like pressure breakers, emergency dump and crossover points.

Lonmin Platinum Mine, South Africa

Design and detailing the tailings and return water pump and piping systems for Lonmin's new Karee K4 tailings dam number 4. This includes mechanical, electrical and instrumentation design and drawings of new tailings pump station , overhead crane and return and storm water overland pipelines.

Dewatering Bin, De Beers Marine , South Africa

Responsible for the design, detailing and manufacturing drawings of dewatering tanks and components.

Yanacocha Mine, Chile

Responsible for the design and detailing of new tailings pump station.

Shear device

Responsible for the mechanical design of a novel shear apparatus for shear sensitive thickened tailings.

Fairbreeze Heavy Minerals Mine, South Africa

Responsible for the conceptual detail design phases of Ticor South Africa's Fairbreeze Site A and Valley Dam Mine tailings systems. This included: thickened slimes pumping and disposal system, sand tailings pumping systems for tailings storage facility wall building and mining area rehabilitation and return water pumping systems.

Other Experience

- Designed, drew and detailed additions to LOESCHE Cement mills in China.
- Designed, drew and detailed to South African Bureau of Standards the Uri Off-road Vehicle.
- Designed and built the tooling and assembly jigs for the Uri Off-road Vehicle frame.
- Draw and detailed a 2.4 km long conveyor belt system for Rössing Uranium mine.
- Designed, drew and detailed the Air Duct System for Ongopolo – Otjihase mine.
- Designed, drew and detailed the refurbishments to Rössing High Explosive plant which included piping and steel structures for the tanks and walkways.
- Site supervision for the construction and erection of the garment factories in Windhoek for Ramatex Textiles Namibia (Pty) Ltd. The supervision was for five 200 x 80 metre workshop sheds.
- Designed, drew and detailed the Hess / Cherenkof telescopes. Supervised the construction of the Telescopes and mediated between the customer, Max Plank Institute for Atomic research and the constructors, Namibia Engineering Corporation.
- Detailed various buildings concrete flooring and reinforcing steel. Made up bending schedules for reinforcing steel.
- Implemented and assisted with staff training for switching over to AutoCAD and set new standards for changing software.
- Designed, drew and detailed components and equipment for mine environment.
- Drew and detailed the structural upgrading of the Uranium plant.
- Designed and drew the Euclid 180 E haul trucks loading bay. This was a totally new concept with rubber coated aluminium panels on a steel structure frame.
- Installed, tested and set hydraulic equipment - marine and land based. Liaised with customers.
- Repaired and calibrated testing equipment.
- Supervised hydraulic equipment and pipe manufacture.
- Trained as a hydraulic fitter on Caterpillar earth moving equipment.
- Plant and pit maintenance Fitter and Turner.
- Quality control and the maintenance of aluminium foundry.
- Supervising of staff.
- Manufacturing of jigs, foundry moulds and patterns.
- Fitter and turner apprentice.
- Training in engineering and maintenance in the mining environment.