

CV- LESLIE GREEN

**CURRICULUM VITAE**

1. Name:	Leslie Green
2.0 Educational Qualifications:	Matric Exemption 1985
2.1 Tertiary Qualifications	National Diploma (T3) Mechanical Engineering National Higher Diploma (T4) Mechanical Engineering PrTechEng (ECSA -201470150)
2.2 Courses/Seminars Attended:	Pressure Vessels Heat exchangers Fluidized bed boilers Coal to Fuel Oil conversion Steam Engineering Pumps and fans Effluent plant operation Pneumatics and Hydraulics Project management Pipe Stress Analysis' CAESAR II Solid Edge 3d design CPDEP (Chevron Project Development and Execution Process) Refrigeration Explained (Geoff Alder)
2.3 Software Literacy	MS Office (Word, Excel, PowerPoint, Project, Access)
2.4 Memberships to Professional organizations:	ECSA, SAIMechEng, SAIRAC

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### 2.5 Engineering Standards and Software

Discipline	Standard	Software
HVAC	ASHRAE, SANS 204	Carrier Hourly Analysis 4.3, Design Builder, Revit, Pump Selection, Fan selection, Ducting Design
Pressure Vessels	ASME V111 DIV 1 EN13445 SANS 347 PD5500	PV Elite, Solid Edge, COMPRESS, Code Calc,
Piping	B31.1 Power Piping B31.3 Chemical Plant B31.4 Fuel Gas Piping	CAESAR II
Tank		Intergraph Tank
Process		AFT Arrow, AFT Fathom, Epanet, Chemcad
Materials Handling		Belt Analyst, Rocky DEM
Machine Design		MitCalc, Solid Edge

3. Identity Number 6710025111087

4. Availability Immediate

5. Residential Area Rondebosch – Cape Town

6. Telephone` 065 144 9562

### 6.5 REFERENCES

ATLANTIS FOUNDRIES	Unathi Kolisi	083 993 9216
CPUT	Mayiji Nyikosa	073 675 7869
ROB DYER	Trevor Dyer	082 770 7665
ATLANTIS FOUNDRIES	Gary Hermanson	084 587 1344
AFRISAM	Quidsiya Ismael	021 521 6000
HARDROCK QUARRY SOLUTIONS	Wynand Swart	082 553 8931
MAJ PROJECTS	Howard Marsh	083 261 8545
CLAWS ENGINEERING	Barrow Mariller	060 353 7276
PUMA ENERGY	Shaik Royker	071 610 4194
INENZO WATER	Jaco Burger	082 772 2331
MELRON GROUP	Tyron Kopman	083 280 5997
TRANSNET	Peter Nolan	021 507 2524
CIOLLI BROS	Braam Le Roux	021 557 1111

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## 7. EMPLOYMENT HISTORY

XGM Consulting Engineers  
years)

July 2012- Present (10

Mechanical Engineering Design Consultants and Project Managers

## Position: Mechanical Design Engineer

## Projects:

- Penstock design for Vacuum and fluid technology
- Aspen steam mains piping design
- CPUT HVAC upgrade, Roeland st building, Engineering building, Hotel School, Administration building.
- Design and detailing of black liquor heat exchanger to ASME VIII div 1, mondi Durban.
- Design and detailing of heat exchanger for GATTI ICE CREAM to PD5500
- Design and detailing of 9m3 LPG vessel for cape boiler company to PD5500
- Design and detailing of 25M3 LPG vessel for ROAMIK
- Various recertification of vessels to PD5500
- Design and detailing of oxygen vessel for valve and fluid technology.
- Design 20 Bar Ammonia 750mm, 5.6m heat exchanger (PD5000) for CLAWS Engineering – Client Gatti ice cream
- Design various pressure vessels for Malutsa water (PD5500)
- Design of boiler and autoclaves for ROB DYER (400L, 200L, 160L, 600L)
- Pipe Stress and Flexibility Analysis

Design 6 "ASTM A106B SCH 40, 2 km gas piping routing  
Client: BJFC Consulting Eng / Mondi Cogen Richards bay Sasol Gas Line

- Design 40 Bar Pressure Vessel (ASME VIII DIV 1) for FORD Engineering – Client POLYOAK
- Piping layout and isometric and hydraulic analysis for BPSA – Montague Gardens
- Quarry design for Sam Monsti Ghana
- Design of trackmounted ore sizer for Quarrytech
- Concept and detail design of sand washing plant with JET washers at Cullinan for AFRIMAT
- Various small projects For ATLANTIS FOUNDRIES
- AFRISAM ready mix plant upgrade in WOODSTOCK
- Additional loading bins and feed conveyors for CIOLLI Brothers DURBANVILLE
- WEPEX jaw crusher for Quarrytech

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- Flammable liquid store extract ventilation for TRANSNET
- 36m 900mm Lattice conveyor for Quarrytech
- Pressure vessel design for AIR Liquide
- Pipe stress analysis for CHEVRON EAST LONDON facility
- Mechanical component analysis for Half roll over machine for ATLANTIS FOUNDRIES
- Black Liquor heat exchanger mechanical design for Mondi and ND Engineering
- AFRISAM Rheeboek various conveyors and screen upgrades.
- 48s Cone crusher platform and frame design with feed conveyor for Quarrytech.
- FD1208 JAW CRUSHER station design for Hard Rock Quarry Solutions
- Redesign of 200NB 160 degree c bitumen line CALABAR Lagos with expansion loops PUMA ENERGY
- 240 kPa Autoclave design for ERROL DYER AND Claws engineering to EN13445
- Jungle Oats new filling line layout design
- New tanks, piping and borehole water mix utilisation with municipal water for GYPROC.
- Transnet Gas reticulation for MELRON Group, M24 Welding GAS, Oxygen gas and LP gas including stress analysis.
- Stress and restraint loading and support design Pipeline for Inenzo water.

Foreplus Group

March 2010- July 2012

HVAC design, government precinct revitalisation project 4 dorp street cape town Systems: VRV, Centralised plant with chillers, air handling units, radiant floor cooling system, ventilation systems, kitchen extraction ventilation.

CHEVRON

January 2010 – March 2010

3 Month contract for Design of intelligent pig loading and receiving station

Basil Nair and Associates

July 09- January 2010

Position: Design / Commissioning Engineer

Projects:

- Cape Town International Airport 2010, Phase 1, 2, 3A, 3B HVAC commissioning, project contract value R70 M

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- HVAC Design, Cape Peninsula University of technology new mechanical engineering building.

## WSP CONSULTING ENGINEERS

AUG 08 – JULY 09

## Position: Mechanical Engineer (Wet Services, HVAC)

## Projects:

- Zilwa Seychelles potable water reticulation including hydraulic analysis (pipe sizing), chilled water reticulation, pipe sizing and pump head and flow calculations.
- Green Point stadium storm water pump station design
- Green Point stadium, Moullie Point substation pump station design.
- German Ambassadors residence Bishops Court. HVAC design.
- Shoprite Bishop Lavis HVAC design.

## FOSTER WHEELER:

AUG 07 – AUG 08

Oil, Gas and Petrochemical Multi-Disciplinary Petrochemical Engineering Design  
Consultants and Project Managers

## Position: Project Engineer / Piping Engineer (CONTRACTOR)

## Duties:

## Proficient in the use of the Caesar II

Knowledge of ASME and ASTM piping standards, particularly B.31.3 Process Piping Code, Pipe support design, Hanger design, Buried pipeline analysis, Static & dynamic analysis of piping systems including high temperature lines, Hydrodynamic analysis, Water hammer, analysis of nozzle loads / stress on vessels using WRC 107/297

Force, moments & stress limitations at equipment, i.e. pumps, compressors, turbines, large storage tanks, fired heaters, pressure vessels, and reciprocating equipment.

## Design expansion loops

## Projects:

- Design and installation of VDU Bottoms access platform.
- Design, installation of 12", 12 Bar, Gasoline relief line with pressure relief valves with Surge (water hammer) and pipe stress analysis.
- Design of water cooled heat exchanger platform.
- Pipe stress, pump and tank nozzle load analysis for core effluent plant balance tank and piping.
- Hydrodynamic Stress Analysis for 12 "subsea Effluent pigging line with additional Pig Launcher.
- LPG Loading Pump Hydraulic calculation, pressure drop determination.

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- NPSH evaluation of asphalt plant pumping.
- Stress and Flexibility analysis for new Asphalt plant 6", 4", 3" high temperature piping. Tank nozzle loading, expansion loop sizing and pipe support design.
- Stress analysis and pipe support system design for 2.5 Km long 16" pipe - Blend Header Extension
- Redesign and rerouting of compressor cooling water supply and return line for AFROX, pipe support design.
- Design of "J" Bend (4000 kg) support for Fractionating Catalyst Cracking Unit. (FCCU).
- Project Engineering and Piping design for Fuel gas, Pilot gas and off gas line for Burner replacement.

## ITHEMBA LABS

APRIL 05- August 07

Ex National Accelerator Centre – Radio Nuclear research centre

Position: Mechanical Design Engineer (CONTRACTOR)

### Projects / Duties:

- Hotcell customization Project. Design, build, install, test and commission.  
Value: R350 000.00
- Design, installation and commissioning of Niobium capsule Hydraulic opener, with piping, valves, instrumentation and power pack.  
Value: R66 000.00
- Design, procurement, installation and commissioning of the Helium cooling system for the target bombardment station.  
Value: R350 000.00
- Design, procurement, installation and commissioning of the Iodine123 Production panel  
Value: R150 000.00
- Design, procurement and installation of water seals with removal mechanism for target cooling

## GABRIEL – ARVIN MERITOR

JULY 04 - MARCH 05

Automotive Struts and shocks

Position: Project Engineer (CONTRACTOR)

### Projects / Duties:

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- Identify plant safety related problems
- Research, identify and propose solution
- Ensure buy and sign off of proposed solution with all departments i.e. Engineering, Production together with shop floor operators and Foreman, Maintenance
- Analysis of contractor proposals
- Requesting quotations
- Analysis of specification documents
- Scheduling, attending chairing meetings.
- Writing out AR'S (appropriation requests)
- Writing out scope of work for contractors
- Writing out work instructions
- Writing out OPM (operator planned maintenance)
- Procurement of goods and management of contractors
- Process engineering coverage of cells, viz. monotube, projection welding, gas spring

### Projects:

- Design, procure and install new mandrel and tooling with vacuum suction to hold end cap to tube on OE Shock and Green cell seam welding machine.
- Design procure and install new pneumatic two hand start on the following machines:  
AM Strut Leak tester, OE Strut Leak tester, OE Strut de-burring machine, Removal of foot pedal on stitching machines and installing pneumatic hand activated mechanism with guards.
- Procure and install new ducting for extraction at the Striker plate machines
- Procure and install new light curtain for the AM Strut crimping machine.
- Remove and install new two hand starts in improved positions (ergonomics) on various machines.
- Install safety guards for the following machines:  
Compression head twin drill machine, Rod straightener, Grinder, REMS cut-off machine, Bardons and Oliver cut-off machine.
- Trichloroethylene elimination  
Elimination of trichloroethylene (non-compliant) from the plant washing process. Implement new washing solutions and process changes.
- Servo test quality issues (Hydraulic load testing of Shocks and Struts)  
Troubleshoot carding process on SHOCK / STRUT Servotest machines  
Validation study, comparison study between two existing Hydraulic load testing machines viz. WHAL and Servotest  
Tooling comparison analysis  
Identifying trends from the above study in order to establish root cause

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for inconsistent results

### TOTAL SAFETY

JAN 2003-JULY 2004

Fire detection and Suppression design consultancy

Position: Project Design Engineer (CONTRACTOR)

Duties:

- Design of fire detection and suppression systems

Projects

- Design, supply and installation of foam fire protection system for floating roof fuel oil tanks.

Client: Chevron Texaco, Escravos, Nigeria

- Design, supply and installation of dry powder fire protection system for fixed roof fuel oil tanks.

Client: Chevron Texaco, Escravos, Nigeria

- For the commissioning and start-up of the fire monitoring and Deluge system supplied by Total safety to Marathon Oil Generator Skids and MCC/Control Room

Client: Marathon Oil, ALBA Platform- offshore Malabo- Equatorial Guinæa

Courses completed:

- Linear heat detection systems
- FE-13 Fire suppression systems
- Pegasys intelligent suppression control systems
- Orion XT High sensitivity smoke detection
- Kidde conventional Suppression control panel
- Carbon Dioxide systems
- FM200 Fire suppression systems
- Amerex Vehicle Fire suppression systems
- Foam Fire protection systems

### SA FIVE ENGINEERING

JUNE 2002- NOV 2002

Construction

Position: Mechanical / Structural supervisor (CONTRACTOR)

Duties:

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For the refurbishment of the "glass dowl" A-Berth Cape Town harbour.

For the installation of all mechanical equipment on board the "GLAS DOWR"FPSO (floating, production, storage and offloading) vessel

- Planning, leading organising and controlling of mechanical staff.
- Resource allocation to tasks i.e. labour, material, tools etc.
- Planning and compiling method statements and installation procedures.
- Ensure the availability of all necessary correct (AFC, latest revision, controlled) documentation and drawing before commencing tasks.
- Ensuring availability of all equipment documentation (operating, installation and maintenance manuals) and specifications therein are adhered to.
- Writing out and issuing of work permits with relevant documentation.
- Writing out job cards using "historical norms" to estimate task durations.
- Measuring efficiencies, actual durations vs. planned durations.
- Daily timesheets against "job card numbers".
- Progress reports.
- Safety management, daily toolbox talks with reference to OSH act.
- Quality management- Ensuring all holds points are inspected and released prior to commencing.
- Liaising with client on technical issues- design and drawing changes.
- Managing site instruction s, change of scope.
- Rigging studies- heavy lifts from quayside onto vessel.
- Procuring unavailable resources through requisitions to buying department.
- Liaising with structural and piping departments, coordinating tasks.
- Liaising with internal stores for the release of all equipment (requisitioning) prior to installation.
- Managing sub-contractors and vendors.

### Projects:

- Installation of "swivels".
- Installation of Solar Turbine.
- Installation of the MP/HP Gas compressors.
- Installation of all pumps (10 off), including levelling and laser alignment of shafts.
- For the removal and reconstruction of hawser reel skid (structural).
- Installations of the seawater lift pumps.
- Installation of all mechanical skids on the swivel/turntable structure.
- For the installation of the internals on the stabiliser column.

DELKOR TECHNIK

SEPT 2001-JUNE 2002

Liquid-Solid separation systems design consultants and Project Managers

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Filter presses, Thickeners, Belt Filter, Linear screens, Column Flotation, Ion exchange, flocculent plants

Position: Projects / contracts Engineer (CONTRACTOR)

Duties:

- Hand over meetings:
- Attendance and adherence to all meetings
- Research on projects and documents
- Detailed accurate timeous minutes
- Planning
- Accurate and detailed project schedule (contract program)
- Research and gather accurate time periods.
- Identify critical lead times once contract is placed.
- To submit all drawings and information requested by the customer.
- Assessing changing future requirements and amending contract document.
- Ensure services and material / Equipment is available to meet the contract program.
- Customer Liaison
- Arranging and chairing all meetings with customer and internal departments.
- Preparing and issuing accurate minutes.
- Obtaining customer authorisation relevant to engineering documentation.
- Maintaining a professional relationship.
- Detail designing
- Liaising closely with all internal departments to ensure the project is engineered in accordance with the scope of work, is timeous and within budget.
- Making decisions on all equipment to be used and to finalise and generate the plant layouts and P&ID'S.
- Attending and chairing all review meetings.
- Analysis of specification documents.
- Identify site problems
- Procurement of goods and management of sub-contractors
- Timeous enquiries on appointments.
- Quality control audit on fabricator used.
- Timeous and accurate issuing of documents to external parties.
- Inspections and visits to fabricators
- Penalties and conditions to fabricator.
- Quality control plan to fabricator.
- Control and presence on site.
- Budgeting and cost centres

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- Control of budget and expenses.
- Maintenance of contract status report.
- Cash flow management.
- Control and record of customer variation orders.
- Quality accuracy and timeous monthly report.
- Project completion:
- Control and record of all invoicing.
- Quality, content, accuracy, detail and customers signatures in the "approval of commissioning documents.
- Control and implementation of pre-commissioning work.
- Project hand over certificates from customer.

### Projects:

#### Contract 15601

For the design, fabrication and supply of 13 filter presses, together with associated equipment viz. drip trays, cloth wash unit, cloth wash pump stations, light curtains, splash curtains, energy chain, electrical control panels, local feed piping, valves and instrumentation with hydraulic power packs. 2 x 500 training plant filter presses, 3 x 1500 effluent plant filter presses, 3 x copper cementation filter presses, 2 x 800 crud filter presses, 1 x nickel leach filter press, 2 x nickel precipitation leach filter presses.

Client: SPJV- (Skorpion joint venture), SNC Lavalin + Bateman, for Skorpion zinc mine Namibia.

Contract value: R13m

#### Contract 14901

For the design, fabrication, supply and commissioning of 1 x filter presses (15 bar) together with associated equipment viz. 2 x feed pumps (1st stage, 2nd stage- Weir envirotech), 1x High pressure pump (ABEL), 1 x sectional mud press feed tank, 4 x settler underflow pumps. Valves and field instrumentation (density meters, ultrasonic level transmitters, pressure switches, float switches etc. Hydraulic power pack, instrument air piping and valves, gland service water piping and valves, local feed piping and valves, underflow piping and valves.

The above installation for North and South shaft Bafokeng Rasimone Platinum mine.

Client: Anglo Platinum

Contract Value: R3.4m.

#### Contract 14601:

For the design, manufacture, supply and commissioning of 1x 630 filter press, compressor, local feed piping valves and instrumentation with agitator, drip tray, membrane manifolds etc.

Client: Mintek for Anglo Gold – Orkney

Value of contract: R 586 000.00

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### WSP PROJECTS

JAN 2001- SEPT 2001

Turnkey Project management and engineering consultants

Position: Mechanical Project Technician (PERMANENT)

Duties:

- Attend site meetings
- Compilation of tender documents
- Mechanical Engineering design
- Contractor management
- Project costing
- Tender adjudication
- Project Management

### Tenders / Projects

Randwater:

Slaker plant upgrade

Flow diagrams (mass water balancing), P&ID diagrams, site layout, plant design capacity calculations and mechanical piping design.

Value: R8.5 m

Dust extraction plant:

Flow diagrams, P&ID diagrams, site layout (civil, structural, and mechanical) plant capacity calculations.

Value: R900 K

Meadow Feeds

Liquid Methionine bulk storage installation

Flow diagrams (PFD), P&ID diagrams, site layout, plant design capacity calculations and mechanical piping design, mechanical equipment selection- pumps, valves, flow meters etc.

Value: R700.000.00

NECSA

Design, manufacture, delivery, installation and putting into service of k1

Ventilation ducting.

Design, manufacture, delivery, installation and putting into service of Degassifier and vacuum pump standby units with valves and piping.

Value: R 300 K

ISCOR HEAVY MINERALS

Wet and dry commissioning of various piping systems:

Sasol gas pipeline

Contaminated raw water pipeline

Compressed air pipeline

EPOL

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Molasses ring main modification  
Propose solution  
Scope of work  
Project costing

ENGEN PETROLEUM

NOV 1999 – JAN 2001

Petrochemical

Position: Plant Supervisor (PERMANENT)

Duties:

- Control optimal utilisation of all assets.
- Ensuring programmed asset maintenance is carried out.
- Co-ordinating all functions within the distribution centre, to achieve optimal outputs for the DC Operation, i.e. administration, warehousing, bulk solvents and lubes, plant maintenance, despatch operation, solvent and IP filing operation.
- Identifying training needs for DC staff.
- Safety.
- Quality control.
- Identifying and creating projects.
- Accessing control management.

ZONKE ENGINEERING

MARCH 1999- AUG 1999

Construction

Position: Operations Manager

Duties:

- Strategic planning, operating budgets, material planning.
- Improving shop floor productivity, quality assurance and control.
- Developing and documenting work procedures and policies to enable measurement of workflow, productivity and reduction in material wastage.
- Reviewing project costing in the area of direct labour.
- Developing and implementing an effective time keeping strategy, integrated with jobcards to clearly indicate labour cost and job completion.
- ISO 9002 accreditation.
- Acquisition of software and hardware requirements.
- Ensuring policy and procedure adherence.
- Marketing and contract acquisition.
- Project management:

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- Job analysis, quantity surveying and costing and development of detailed and integrated multi-project schedules.
- Preparation of tender and contract documents.
- Identifying, evaluating and selecting sub-contractors.
- Compiling bill of materials (BOM).
- Liaising with clients concerning price, quality, and delivery.
- Initialising, reviewing, controlling and monitoring projects.

SMITHS MANUFACTURING

JUNE 1998- MAR 1999

Automotive air conditioning

Position: Project Engineer (PERMANENT)

Duties:

- Bill of materials.
- Design, drawing, developing and prototype testing.
- Initial sample inspection reports.
- Engineering changes.
- Production support.
- Specifying facility requirements.
- Designing products in line with customer requirements.
- Compiling timing plans and issuing to customer for approval.

Functional definition:

- Providing a competent and effective technical service required in the design and development of automotive related products and implementation into production.

Projects:

Nissan QW pipes and hoses

Models: VG 30; NA20; TD27; QD32; KA24.

Designed and built thirteen hose and pipe variants to suit the above models.

Selection of compressor, condenser, evaporator and associated equipment.

Service aftermarket aircon pipe and hose requirements.

NESTLE

JANUARY 1995-JUNE 1998

Food and beverage

Position: Technical Assistant (PERMANENT)

Duties:

- Ensuring all regulations and recommendations as per NOSA and MOS act

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is complied to.

- Investigating existing systems and recommending action to overcome frequent or re-curing downtimes.
- Providing details of plant and equipment to overcome these problems.
- Technical and administrative function related to the compilation of annual maintenance budget and capital.
- Processing technical orders, liaison with contractors and suppliers.
- Boiler and air heater efficiency monitoring
- Maintenance budget and capital.
- Processing technical orders, liaison with contractors and suppliers.

### Areas:

- Water Treatment Plant.
- Compressors.
- Refrigeration.
- Effluent Plant.

### Projects:

- Air heater and Boiler Conversion (Coal to Heavy Fuel Oil) – R12M.  
Conceptualising, designing and commissioning of oil storage and supply lines.  
Selection, procurement and installation of equipment, viz. pumps, piping, valves, heat exchanger coils, pressure reducing valves, temperature control valves, steam traps, steam tracing lines.
- Condense Recovery Upgrade – R750K.  
Steam plant audit.  
Re-designing condense recovery to optimise the return.  
Removing all old ineffective equipment and replacing.
- Effluent Plant Upgrade – R600K.  
Controlling plant effluent loads, ensuring consistent flow rates, troubleshooting pumping systems.  
Increasing plant reserve capacity.  
Installing screens to control and reduce sediment load.  
Removal and re-installing effluent transfer pumps and piping from balance tank to effluent plant.

KIMBERLEY CLARK

JAN 1990- JULY 1994

Pulp and Paper

Position: Project Technician (FMCG) (PERMANENT)

Duties

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- Ensuring all regulations and recommendations as per NOSA and MOS act are complied to.
- Investigating existing systems and recommending action to overcome frequent or re-curing downtimes.
- Providing details of plant and equipment to overcome these problems.
- Technical and administrative function related to the compilation of annual maintenance budget and capital.
- Investigating existing systems and recommending action to overcome frequent or re-curing downtimes.
- Providing details of plant and equipment to overcome these problems.
- Technical and administrative function related to the compilation of annual maintenance budget and capital.
- Process technical orders, liaison with contractors and suppliers.

### Projects:

- Bag Filter Installation.
- Installed cyclone, with associated equipment, viz. fans, ducting, controls, etc.
- Diaper nip roll, design and installation
- Automatic roll splicing system
- Culled diaper, fluff recycling
- Fluff vacuum installation

SAFMARINE

JAN 1989-JUL1989

Shipping

Position: Engineering Cadet (PERMANENT)

### Duties:

Assisted Engineers with maintenance on boilers, pumps, main engine, compressors, diesel generators, centrifugal separators, fuel injector calibration, reticulation (process and instrument diagrams) all systems.

### References:

Foster Wheeler  
Ron Davies 082 462 3960  
Snr Piping design Engineer

Ithemba Labs  
Dr Clive Naidoo 021 843 1000

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Gabriel Manufacturing

Deon Wright 021 710 6851  
Neville Young 021 710 6849

Total Safety

Lisa Horsford 082 775 4689  
Gerald Dodo