

## ARTHUR MOORHEAD

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Nationality	British / SA permanent resident
Profession	Structural/Civils/ Construction/Quantity Surveyor
Specialisation	Civils/Structures/Construction Technology & Materials/Contacts Law
Position in Group	Associate Director – Africa Design Services
Year of joining Group	2006

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### KEY QUALIFICATIONS

A Chartered Building Engineer, Chartered Construction Manager and Chartered Quantity Surveyor with 30 years of professional consulting and construction experience gained in the UK and Southern Africa on numerous multidisciplinary projects in the pulp and paper, petroleum, sugar, oil, gas and commercial industries. Experience ranges from technical and financial feasibility studies, design, detailing, tender and contract documentation, contracts administration, claims resolution and final accounts. Excellent knowledge of legislation, South African National Standards (SANS) and BSI codes governing the design and construction industry. Good exposure to national and international conditions of contract such as Design Build / EPC and EPCM. Good experience with Prof Service agreements Collateral Warranties and PI insurances. Good knowledge of Breakthrough Project Management and Alliance Contracting, use of which will bring your projects in on time and to budget . Good understanding of the EIA / NEMA processes, together with the National Building Regulations and Building Standards Act as applied to the Plan submission processes. Excellent skills in the management of Multi-Disciplinary project teams. Excellent Mentoring Skills to Candidate Engineers, Technologists and Quantity Surveyors Excellent skills in Commercial Engineering, Contract and Construction Law.

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### EDUCATION AND PROFESSIONAL STATUS

Professional Technologist, Engineering Council of South Africa

Diploma in Project Management, Damelin School of Management, South Africa

Member of the Institute of Engineers and Technicians, uk

Member of the Society of Professional Engineers International,

Member of the Chartered Association of Building Engineers, uk

Member of the Royal Institution of Chartered Surveyors, uk

Member of the Chartered Institute of Building, uk

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### EXPERIENCE RECORD

**2006 – present    MOTT MACDONALD PDNA**

**2013 – present    Associate Director – Africa Design Services**

<b>2013</b>	<b>PD Naidoo and Associates joined Mott MacDonald Group</b>
<b>2013</b>	<b>Associate Director/Project Leader – PD Naidoo and Associates</b>
<b>2012</b>	<b>CBI Consulting Engineer (Pty) Limited joined PD Naidoo and Associates</b>
<b>2006 – 2012` Limited</b>	<b>Associate Director / Project Leader – CBI Consulting Engineers (Pty)</b>

**Sappi Saiccor - Project Vulindlela** – 1 of 3 Specialist Area Engineers on this R7.7billion expansion project consisting of the Civil/Structural and Building designs, drawings , tender and contract documentation for the following New Structures , B/S Washing and Screening, Digesters, 2 Electrical Buildings, So2 Tank Farm , Evaporators and Evaporator Tank Farm, Pipe Bridges, BOP mods to the exist plant and New Effluent and Stormwater drains .

**Mondi Richards Bay** – Project Leader for all Civil and Building works for the New Chipper Line from Tender to Completion , reported to the Project Director ( Project Value R1.5billion )

**Mondi Shanduka Newsprint Merebank Mill** – Preparation of master tender documentation for civil and building works. Reported directly to the client.

**Pure Ocean Fish Farm East London** – Project leader for the civil and building works on this state-of-the-art ZAR30 million facility to breed Kob and Yellow Tail. An additional duty was to review all tender documentation to ensure compliance with the client's requirements, our designs and statutory regulations. Reported to the project director.

**Upgrade of Matubatuba Water Works** – Project leader for the civil and building works on this ZAR123 million upgrade to the existing water treatment plant. Also prepared civil quantities and specifications for inclusion in the tender documents, reported to the project director.

**Project Amakhulu, Sappi Saiccor** – Project leader for the civil and building works on the new Continua 5 building as part of a ZAR3.5 billion project which increased cellulose pulp output by 200,000 tonnes per annum. Reported to the project director.

**Xylose Recovery Project, Sappi Saiccor** – One of several project engineers responsible for putting together the feasibility study for an international client on a potential ZAR1 billion project.

**Proposed Ngwadini Dam, Sappi Saiccor** – Project leader responsible for all reinforced concrete structural designs and details on this 10.6 million cubic metre earth fill embankment dam with an estimated cost of ZAR250 million. Assisted the project director in the review of all tender documentation.

**PDS Broke Removal, Mondi Merebank Mill** – Project leader for civil, building and quantity surveying services on this ZAR6 million alterations project. Reported to the project director.

**Reel Storage and Despatch Extension, Mondi Merebank Mill** – Project leader responsible for the management of architectural, civil and structural designs, drawings, tender and contact documentation for this ZAR35 million design and build project.

<b>2006</b>	<b>ANATHI CONSULTING ENGINEERS Contracts Engineer</b>
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**Existing Air Force Hangars, Durban International Airport** – Contracts engineer responsible for the compilation of tender documentation, in accordance with CIDB and PWD standards, for both the emergency repairs and the rehabilitation of the existing Air Force hangars.

**2004 – 2006**

**FLUOR SA**

**Lead Project Controls Quantity Surveyor**

**Project Lion, SAPREF Refinery** – Project controls quantity surveyor responsible for monitoring and reporting on the quantity, cost and time variations to the major work package contracts, for example, structural steel, civils and buildings, mechanical and piping, insulation and painting. Inputs into bid and contract documentation. Processing of interim payment certificates and final accounts. Responded to subcontractors' claims for new rates, extensions of time and increases to the contract price. delay and disruption claims. Gained a good knowledge and understanding of the Fluor standard, methods of construction management, administration and project controls within an engineering, procurement and construction management (EPCM) environment. Reported to the project controls manager on this ZAR650 million clean fuels expansion project.

**2004**

**QATAR PETROLEUM COMPANY**

**Contracts Engineer**

Contracts engineering specialist for oil and gas works, duties and responsibilities encompassed, the technical and commercial evaluation of tender bids, the preparation of contract documents for signing by both client and contractor, the review of insurance policies, guarantees and bonds, contractual advice to other departments and contract administration. Reported to head contracts engineer.

**New Production and Injection Wells, Dukhan** – Preparation of contract documents for signing by client and the contractor.

**Construction of FDT Laboratory and Stores, Dukhan** – Commercial evaluation and report on the three lowest bids, for submission to the general tenders committee.

**Construction of New Laboratory, Offices, Stores and External Works, Dukhan** – Preparation of contract documents for signing by both the client and the contractor.

**1995 – 2004**

**INGEROP AFRICA (PTY) LIMITED**

**Project Engineer/Design Engineer**

**Swaziland International Trade Fair, Manzini** – Responsible for all civil and building works design and drawings including bulk earthworks. The provision of specifications and other data to the quantity surveyor for tender and contract documentation. Reported to the project manager.

**Third Cell Licence Bid for Nokia, KwaZulu-Natal** – Lead design engineer responsible for designs and detail drawings for all greenfield and rooftop base station sites, on this ZAR100 million project. Providing information to the quantity surveyor for cost estimates. Reported directly to the client.

**Proposed Braamfontein Office Block, Gauteng** – Responsible for the preliminary design and details on this ZAR160 million project and cost data information to the quantity surveyor. Reported to the project architect.

**Proposed International Hotel, Biera, Mozambique** – Responsible for the preliminary design and details on this ZAR95 million project and information to the quantity surveyor to assist with the feasibility costs. Reported to the project manager.

**Malabo Sports Stadium, Equatorial Guinea** – Responsible for the design and drawings of the main reinforced concrete structure and piled foundations, on this FIFA approved stadium. The provision of structural information to the quantity surveyor for tender and contract documentation .Reported to the project manager.

**120 Bed Hospital in Manzini Swaziland** – Lead project engineer responsible for all civil and building works design and detail drawings for tender and construction purposes. Reported to the project architect.

**1984 – 1995                      KEEVE STEYN INC CONSULTING ENGINEERS**

**1990 – 1995                      Project Technologist**

**1984 – 1990                      Designer/Detailer**

**New Sugar Mill for TSB, Malalane** – Lead designer for this greenfield sugar mill located in the old eastern Transvaal, project value in today's terms would be in the region of ZAR1.6 billion. Reported directly to the project director.

**Inanda – Wiggins Tunnels Phase Two , Umgeni Water** – One of several designers responsible for the external works at the tunnel portals. Value of this project in today's monetary terms would be in the region of ZAR150 million. Reported to the Project Engineer.

**Genref (now Engen) Expansion Project, Durban** – One of several onsite design engineers on this brownfield project. Value of the project in today's terms would be in the region of ZAR1.3 billion. Reported to the project engineer.

**Proposed Underground Metro for Johannesburg City** – One of several design engineers responsible for the structural design and layout of cut and cover stations. Value of this project in today's monetary terms would be in the region of ZAR3.5 billion. Reported to the project engineer.

**1976 – 1984                      SHEPHERD AND SHEPHERD CONSULTING CIVIL AND STRUCTURAL ENGINEERS**  
**Designer/Detailer/Contracts Administrator**

Worked on numerous projects for Sapref, Genref, Shell Oil, Shell Chemicals, Tubatse Ferrochrome and Tongaat Hullet sugar. The estimated value of these projects in today's monetary terms would be in the region of ZAR300 million.

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## **LANGUAGE CAPABILITY**

English        :        Mother tongue