

## CURRICULUM VITAE

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<b>Name of Staff:</b>	<b>HOWARD, Glenn</b>
<b>Profession:</b>	Consulting Engineer
<b>Date of Birth:</b>	14 July 1962
<b>Years with Firm/Entity:</b>	Thirteen
<b>Nationality:</b>	Namibian
<b>Membership in Professional Societies:</b>	Engineering Council of Namibia, Professional Engineer, Reg. No. PE92017 (1992) Association of Consulting Engineers of Namibia: Corporate Member Engineering Professions Association of Namibia: Corporate Member American Society of Heating, Refrigerating and Air- Conditioning Engineers: Member

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### KEY QUALIFICATIONS:

Glenn Howard has 13 years experience as a Consulting Engineer in the Building Services field. In this time, he has developed a broad knowledge on all electrical and mechanical building services. He has translated his varied experience and special interest in energy efficiency into practical and pragmatic design solutions to problems that utilise appropriate technology. Some examples include:

- The analysis of building thermal performance to reduce air conditioning capacity and energy consumption
- The selection of appropriate air conditioning technology to reduce energy consumption
- Load management to reduce maximum demand energy costs
- Determination of the most appropriate means of hot water generation (Diesel, solar, electrical)
- The practical implementation of cost-effective renewable energy systems, both as stand alone systems and hybrid systems
- The use of energy efficient lighting, utilization of day-lighting and innovative lighting control systems
- Design of lighting control systems and occupancy sensors to reduce lighting energy consumption
- Implementation of solar water heating and PV energy systems for off-grid facilities
- Investigations into power condition and consumption problems for a variety of Clients

His experience with water supply services extends from the mechanical components relating to pumps, pipework and chlorination, contribution to feasibility studies on electrical and mechanical components, the design and specification of PLC and Telemetry-based control systems and cathodic protection systems for buried pipelines.

He has designed numerous services for commercial and industrial developments in the construction industry, ranging from electrical and air-conditioning installations for a commercial shopping complex, to the varied services for a state-of-the-art archives facility.

## **RELEVANT PROFESSIONAL EXPERIENCE:**

### Renewable Energy, Energy Efficiency & Special Projects:

- Implementation of energy efficiency measures for Renewable Energy and Energy Efficiency project for Gobabeb Desert Research Station, Namibia
- Energy efficiency study with recommendations for RC Hospital, Windhoek
- Contribution of mechanical & electrical specifications for "Standards & Norms for Health Facilities" for the Ministry of Health and Social Services, Namibia
- Compilation of all mechanical and electrical specifications to international standards for two 16/20-storey buildings in Luanda, Angola as sub-consultant to South Korean Architectural Firm.
- Report to recommend use of solar water heating systems as standard for Secondary School Hostel blocks.
- Investigate energy consumption at Bank of Namibia, Windhoek.
- Investigate utility consumption for all Namibian Police facilities, Ministry of Home Affairs, Namibia.
- Investigate and report on conversion of HFO boiler and electrical water heating systems to solar water heating for University of Namibian Windhoek Campus.
- Investigation and report on utility consumption for Namibian Police facilities.
- Team leader for study: Assessment of feasibility for the replacement of electrical water heaters with solar water heaters.

### Water supply systems:

- Upgrading of Olushandja & Ombalantu purification works
- Pump control systems for Ogongo Purification Works Ferrifloc dosing system
- Pump control systems for Calueque pumpstation, Angola
- Booster pump stations at Onayena & Okatope
- Pump and Control systems for the Olushandja-Ruacana Water Supply Scheme
- Mechanical design for new Oshakati-Ondangwa pump station
- Design, extension and monitoring of cathodic protection systems for various buried pipelines.

### Feasibility studies:

- Investigation into bulk water supply for rural distribution in the Endola North Area: Mechanical & Electrical components
- Investigation into bulk water supply for rural distribution in the Ombalantu Area: Mechanical & Electrical components
- Feasibility study on water supply to the Oshivelo-Omutsewonime-Okankolo area: Mechanical & Electrical components
- Rural water supply master plan study for the Kavango Region: Mechanical & Electrical components

### Specialist facilities:

- South and East link building services for Telecom Namibia telephone exchanges
- Upgrading of firefighting services : Walvis Bay oil depots
- Upgrading of Roman Catholic Hospital, Windhoek
- Solar PV and grid powered rural clinics
- Hybrid solar/diesel/battery power supply systems for rural institutions

### Banks:

- Commercial Bank of Namibia (Swakopmund, Keetmanshoop,Luderitz)
- Standard Bank – Ausspannplatz Branch, Windhoek
- First National Bank – Ausspannplatz Branch, Windhoek

### Police Facilities:

- Wanaheda Police Station for Dept. of Works
- Police Forensic Laboratories for Namibia Police
- New police cell facilities at Keetmanshoop and Swakopmund

Educational facilities:

- Okatjikona Environmental Education Centre (Waterberg) The project was a finalist for the Shell/EPA Environmental Award 1996.
- Windhoek International School
- Vocational school and hostel at Klein Aub
- Secondary schools and hostels at Okalongo, Iipundi, Okankolo, Mpungu Vlei in Northern Namibia
- Extensions to Neudamm Agricultural College

Institutional facilities:

- National archives and library complex for Namibia
- Upgrading of Prison, Lüderitz
- Resource Centre for the Polytechnic of Namibia

Commercial facilities:

- Sentra Tré Supermarket
  - Industria Park light industrial complex
  - Maerua Park recreation centre
  - Air-conditioning for Woermann-Brock, Katutura
  - BDO office building
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**EDUCATION:**

1985 BSc Engineering (Mechanical), University of Cape Town, South Africa, 1985

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**EMPLOYMENT RECORD:**

- 1992 - present **EMCON Consulting Group.** Principal, Consultant, Windhoek, Namibia
  - 1991 **Bührmann & Partners Consulting Engineers,** Engineer, Windhoek, Namibia
  - 1986 – 1990 **Department of Water Affairs.** Engineer, Windhoek, Namibia.
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**LANGUAGES:**

	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
English	Excellent	Excellent	Excellent
German	Good	Good	Poor
Afrikaans	Excellent	Excellent	Excellent

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