

Nick Herrington

Personal Information:

Nationality/Passport:	South African
Home language:	English
Other language:	Afrikaans
Health:	Excellent
Drivers license:	Code 08
Date of Birth:	15 th of June 1973

Work Experience:

2011/06 – Presently **Marine Data Consultants**
Present Position: **Senior Project Manger**
Location: **Cape Town, South Africa**

- Office based duties of this position include: Management, development and training of Marine Data Consultants survey staff. Tender submissions, including quotations and scope of work for new and existing business. Providing software training for survey staff and clients.
- Offshore duties include hardware installations, online survey, data processing, reporting and training.

2004/03 – 2011/05 **Underwater Surveys (PTY) LTD (2007) previously Reson SA(PTY) LTD**
Present Position: **Senior Project Surveyor**
Responsible Positions: **Project Engineer/Project Surveyor/Project Manager**
Location: **Cape Town, South Africa**

The description of this employment includes:

- Project management of Hydrographic surveys; planning, logistics, costing, overseeing contractors, sourcing equipment and personal through to report delivery.
- Responsibility for hardware and software product sales with continued system application development to meet with client's on-going requirements, including project planning and management.
- Technical support to Underwater Surveys field surveyors and clients for hardware and software related issues.
- Mobilisation of Survey Projects and the office based management and support thereof.
- Demonstration of equipment and software suites
- Technical support to mechanical & electrical facets of the business
- Technical support of oceanographic equipment and related software.
- Training of client staff to operate and maintain hardware and software.
- Hardware and software development specific to client requirements.
- Engineering design and manufacturing drawings – AutoCAD 2D / 3D.
- 3D Solid Image and animation design for software application and presentation purposes- AutoCAD & 3D Studio Max.
- Responsibility for MBES & SBES hydrographic and inspection surveys from planning to report delivery.

- Hydrographic data manipulation with QINSy, QCloud, TerraModel, SonarWiz & Fledermaus software producing deliverable products - bathymetric charts, cross sections, contours charts, 3D images and fly through's
- Full MBES system installation, calibration, sonar operation, acquisition operation and data processing to detailed final report presentation. (Including new Reson specialised system commissioning with HAT's and SAT's).
- Party Chief for Anchor handling and Rig moves projects with multiple vessel remotes using QPS QINSy.
- Drill Ship Rig moves with LBL array preparation and calibration using HiPAP and APOS with Ship and ROV based LBL systems.
- Drill Ship Bit positioning using Sonardye Fusion USBL
- Sonardye USBL hardware and software Installation
- 9 months participation in the Installation, training, active operation and support of a Shallow Water Route Survey System for Harbour Security and Mine Countermeasures. Multiple small survey boats each fitted with 7125 Reson Seabat Multibeam Echo sounder, 7128 forward looking sonar, Edgetech SSS and SBP both tracked with ORE USBL and motion and position referenced by an Applanix POSMV. Each boat enhanced with a small Inspection ROV. The Survey Team conducted object detection and classification on the seabed with data acquisition in QPS QINSy and Edgetech Discover. The various objects were classified and identified through forward looking sonar, processing and visualisation with QINSy, QCloud, SonarWiz and IVS3D Fledermaus and then presented and archived in ESRI ARC. Development and commissioning of a WLAN OTF data transmission from the survey boats to the land based stations and processed data via a VPN to a central operations facility.
- Managing Dam Hydrographic and cadastral Surveys with MBES and SBES.
- Commissioning and managing of Qinsy & PDS2000 3D Online Articulation Visualisation Projects - dredging and mechanical mining applications with enhanced visual object to encoder interfacing
- Company representation and overseeing sub-contracting services

Experience with the following equipment:

MRU, Gyro, GPS, DGPS and RTK System, SBES, MBES, USBL, LBL, SVP, SSS, SBP, Tide Gauges, Laser Scanning Units and oceanographic equipment.

C&C, Trimble & Veripos, Kongsberg Simrad HiPAP LBL, ORE USBL & Sonardye Fusion USBL, Klien & Edgetech SSS, Edgetech SBP, Valeport Tide Guages etc...

Reson Seabat Systems: 7125, 7128, 8101, 8124, 8125, 8128, 8150 & 8160 (Installation, operation & support).

Software: QINSy version 7 & 8, QCloud, Sonarwiz, PDS2000 (Setup, Acquisition & Processing), HydroPro, Terramodel, TerraVista, 3D Studio Max and AutoCAD, Verify QC, APOS & Fledermaus

Courses & Certificates: Sonardye USBL trainers Course (052006)
Ocean Mapping Group Multibeam Course (062006)
Pan European Basic Offshore Safety Refresher (062006)

Clients Base: Total, Namdeb, Debeers Marine, CSIR, Counsel for Geosciences, Sub Tech, Alexcor, Ina Hina, Triton Survey, SA Navy, Riversdale Mining, IMSC & MCA, Rhode Nielsen, Namport & Subtech.

Work Areas: South Africa, Namibia, Mozambique, Tanzania, Mauritius, United Kingdom, China, Nigeria & New Zealand.

Recent Project Experience with Reson SA:

[Appended at end of document](#)

2000/04 – 2004/02 Thales GeoSolutions SA / Racal SA
Position:
 2001 – 2004 Party Chief / Offshore & Office Project Manager
 2000 - 2001 Senior Oceanographic Engineer
Division: Environmental and Metocean Services
Location: Cape Town, South Africa

Thales Geosolutions SA is an international provider of survey, metocean, positioning & tracking products and services. The environmental division centre of excellence is based in Cape Town providing services worldwide through local offices.

The description of this employment included:

- Managing logistics and resources of local and international projects on a daily basis.
- Liaising with clients and client representatives to facilitate their project needs.
- Party Chief/Offshore Project Manager, leading a team or acting independently, operating locally and internationally, on and offshore.
- Planning, preparation and management of oceanographic projects.
- Preparing scopes of work and risk analysis documentation.
- Compiling of technical reports, fieldwork and operation procedure documents.
- Client presentation and training on various software and instrument capabilities.
- Company representation with clients and their HSE personnel to provide equipment, component assembly and operation procedures to meet our and their safety requirements.
- AutoCAD drawing of mechanical manufacturing diagrams, moorings, instrumentation and instrumentation schematics.
- Various instruments and software system set-up, interfacing, diagnostics and calibrating.
- Workshop construction and modification in an electrical/electronic and mechanical nature of instrumentation and housing structures.
- Instrument electronic and mechanical faultfinding and repair.
- Set-up and operation of navigation and positioning software and equipment.

Extensive offshore experience on vessels and platforms involving the deployment, recovery and servicing of instrumentation that are moored or mounted on vessels or platforms in shallow to ultra deepwater. Experience with Acoustic Doppler Current Profiler's in self-contained and real time installations and operation on the seabed, platforms and vessels. Including installation and operation, faultfinding and repair. Extensive experience with long, multiple instrument ultra-deepwater current arrays.

Finally a well established reputation within the local & international client base for providing excellent field service resulting from 100% data recovery in extremely harsh working environments particularly in managing the larger, ultra deep and multiple mooring projects.

Instrumentation Experience:

ADCP – RD Instruments: Broadband, Workhorse and Longranger

Self contained and real-time deployments.

Current meters – Aanderaa, Woods Hole, Nortek and Interocean

Tide gauges – Aanderaa, MCS, Valeport

SBES – Deso & Kongsberg

Acoustic Release – Sonardyne and Benthos

Waverider – Datawell

Weather Stations – Aanderaa, MCS, Campbell Scientific, Campbell Scientific and Visalia

CTD – Seabird and YSI

Wavescan Buoy – Oceanor

Work Areas: South Africa, Namibia, United Kingdom, Gabon, Congo, France, Turkey, Azerbaijan, Kazakhstan, India, Norway & Brazil.

Major Client Base: Pioneer, Smit Tak, Cairns Energy, BP, AGIP, AGIP KCO, AIOC Azerbaijan, Statoil, Norsk Hydro, Enron, Hydrosearch & Bristol Ports Authority.

Major Project Experience with Thales Geosolutions:

[Appended at end of document](#)

1998/04 – 2000/04 Council for Scientific and Industrial Research
Position: Project Manager/Field Instrumentation/Oceanographic/Survey Engineer
Division: Environmentek
Program: Coastal Development and Marine Resources
Business Group: Marine Environmental Data Management
Location: Stellenbosch,

The description of this employment includes:

Field Work:

- Setting up of instrumentation and related software.
- Operation, deployment and recovery of the following systems including all moorings; 3D GPS Buoy, Waveriders, Wavemonitors, current meters, Broadband and Workhorse ADCP, temperature profile recorders, acoustic releases and tide gauges.
- Calibration of instrumentation, up and down loading data and setting up of reference and base stations.
- On-site instrument faultfinding and repair or component replacement.

Survey:

- River and estuary and land surveys including ctd, sediment, water sampling and operation of small craft.

Bathymetric Survey (SBES):

- Electronic set-up, maintenance and operation of all equipment and software.
- Echo sounder – Deso 11/15/20
- DGPS – Landstar and Trimble units

- Handheld GPS – Garmin and Magellen
- Survey software operation – Sextant and Hydropro
- Autocad and Quicksurf operation
- Preparing and set-up of survey navigation
- Processing of captured data through to schematic charts, pictures and figures
- Skipper of vessel

Office:

- Project Manager - Project planning, management and costing
- AutoCAD – 2D and 3D Autocad 14 mechanical and electrical drawing
- Data Processing and manipulation

Weather Stations:

- Installation and maintenance of weather stations with gsm, telemetry and data logger systems.

Workshop:

- Electronic and mechanical design, construction, modification and maintenance of instrumentation / equipment. Wavemonitor buoy constructed from pcb component level.

1995 – 1998 **Cape Hydraulics (Marine Hydraulic Industry)**
Position: **Hydraulic Engineering**
Location: **Cape Town, South Africa**

The description of this employment includes:

- Hydraulic Technical Sales
- Job quoting, estimating and costing
- Technical drawing and design
- Overseeing jobs in progress
- Workshop and site experience in faultfinding, repair, installation, manufacturing and maintenance of hydraulic and pneumatic equipment.

1994 Jun-Dec **Cape Technikon**
Position: **Computer Technician and Autocad Lecture Assistant**
Location: **Cape, South Africa**

The description of this employment includes:

- PC, network installation and the maintenance of the hardware and software.
- Tutoring and assisting students in AutoCAD lessons.

Other

2004-2008 **Civoc Engineering Services - Earthworks Machine Plant Hire**
Director (100% Ownership)

- Preparing business plan
- Costing, logistics and Invoicing
- Keeping of company books for income tax

- VAT returns

Education:

School Education

Kirstenhof Primary School
Wynberg Boys' High School
Matriculated with Cape Senior Certificate Exemption in 1991

Tertiary Education:

Cape Technikon
1992-1994 ND Engineering: Mechanical S1-S4
1996-1997 ND Engineering: Electrical L/C S1-S3

Attachments (on request):

Recent Project Experience: MARINE DATA CONSULTANTS

Client: CSIR
Location: Plettenberg Bay, South Africa
Description: Search Survey - Reson Seabat 8125

Client: De Beers Marine Namibia
Location: Luderitz Bay, Namibia
Description: Sampling Campaign, Reson Seabat 7125, Applanix POS MV 320 & QINSy

Client: NAMDEB
Location: Oranjemund, Namibia
Description: Dredge Visualisation Commissioning- QINSy with modelling and encoders.

Client: Underwater Surveys/South African Navy
Location: Cape Town, South Africa
Description: IVS3D Fledermaus 5 Day Training Course

Major Project Experience: RESON SA / UNDERWATER SURVEYS

Training: PSD2000 Survey & Dredging Software
Location: Rotterdam, Holland

Symposium: Oceanology International 2004
Location: London, United Kingdom

Client: CSIR
Location: Gaansbaai/Hermanus/Table Bay, SA
Description: Hydrographic Survey - Harbour Quay Wall and Breakwater 8125 Sea bat Multibeam for engineering analysis survey

Client: Alexkor
Location: Alexander Bay, South Africa
Description: Hydrographic Survey - Shallow Water 8125 Multibeam Sonar Survey for diamond mining application

Client: Council for Geoscience
Location: Saldanha Bay, South Africa
Description: Hydrographic Survey - Shallow Water 8125 Multiyear Sonar Survey for IMT current & Sediment movement analysis

Client: DeBeers Marine
Location: Cape Town, South Africa
Description: 3D Subsea Crawler Visualization Model Development and Implementation Model Design and implementation

Client: Inha Hina
Location: Maputo, Mozambique

- Description: Hydrographic Survey - 8125 Multibeam Sonar Installation & Local Client technical acquisition operation, software and faultfinding & repair training.
- Client: Subtech
Location: Maputo, Mozambique
Description: Hydrographic Survey - 8125 Multibeam Installation, harbour channel and wall survey.
- Client: Triton Survey SA
Location: Koeberg Harbour, South Africa
Description: Hydrographic Survey - Single Beam Bathymetry Survey Assistance.
- Client: South African Navy – SAS Protea
Location: Cape Town to Richards Bay, South Africa
Description: Seabat 8160 Multibeam Sonar Operation, Maintenance and data processing Training. Compile operation manuals.
- Client: DeBeers Marine
Location: Luderitz, South Africa
Description: Seabat 8125 Multibeam Sonar Installation and commissioning
- Client: Namdeb
Location: Oranjemund, South Africa
Description: Company representative for Sonardyne USBL Fusion Installation for drill tool bit position of the drill string. Innovative world first successful installation of equipment in such an application.
- Client: Namdeb
Location: Oranjemund, South Africa
Description: Installation of Seabat 8125 multibeam sonar Rotation system for underwater visualisation on jack up walk-in platform. Leading edge African technology application.
- Client: Triton Survey SA
Location: Bellville Quarry, South Africa
Description: Hydrographic Survey - Sea bat 8125 Multibeam Sonar Survey of quarry merged with laser scan SURVEY of rock wall interface producing a 3D image for engineering application.
- Client: IMSC – Laurel Industries
Location: NanJing, China
Description: Installation of 8150 & 8160 MBES Systems with PDS2000 Software.
- Client: Namdeb
Location: Oranjemund, South Africa
Description: Development of 3D imagery for visual articulation interpretation of the jack-up walk-in rig within QINSy 6042 survey software. Installation and setup of sensors for articulation feedback.

Client: Namdeb
Location: Oranjemund, South Africa
Description: Demonstration of 8125 Multibeam system for real time dredge monitoring with 3D object modelling and articulation.

Client: CSIR
Location: Stellenbosch, South Africa
Description: Data processing, manipulation and 3D image generation of Dubai palm Island Breakwater.

Client: NCAOR
Location: Port Louis, Mauritius
Description: Seabat 8101 and PDS2000 Installation, patch test calibration and training.

Client: MCA
Location: Shetland Island, United Kingdom
Description: Seabat 7125 dual frequency system upgrade and SAT's

Client: Debeers Marine
Location: New Zealand
Description: Seabat 7125, installation and commissioning

Client: Namdeb
Location: Oranjemund, Namibia
Description: QPS QINSy 3D Mining platform Visualisation and articulation installation and commissioning Jack up and walking platform

Client: Namdeb
Location: Oranjemund, Namibia
Description: QPS QINSy 3D Mining platform Visualisation and articulation installation and commissioning Cutter Dredger. Training PDS2000, QINSY and 8125 Sonar Operation.

Client: WML
Location: Walvis Bay, Namibia
Description: Hydrographic Survey – Walvis Bay Naval base SBES IN/Out Survey.

Client: Rhode Nielsen (re-occurring every +/-30 days 2yr)
Location: Cape Town Harbour, South Africa
Description: Hydrographic Survey - In/Out MBES Survey 8101 of the Ben Schoeman Dock and Dump Site.

Client: PetroSA
Location: Mossel Bay, South Africa
Description: Mobilisation & QPS QINSy Setup for Oil and Gas SBES, Pinger & Side Scan Site Clearance Survey.

Client: PetroSA (re-occurring evry +/-60 days 1yr)
Location: Mossel Bay, South Africa

Description: Mobilisation & QPS QINSy Setup and operation for Oil and Gas Rig Move and Anchor lay. Rig with 4 DGPS systems and gyro and two AHV with QINSy Tug Display DGPS and Gyro with radio modem links.

Client: Riversdale Mining
Location: Tete to Chinde on the Zambezi River, Mozambique (500km)
Description: Channel survey to the river mouth with SBES RIB and MBES boat, Veripos positioning, Reson 8101 MBES and Navitronics NS215 and NS110 SBES. 60 days bush camping expedition with 4x4 land support.

Client: Total (re-occurring every 60 days)
Location: Port Harcourt, Nigeria
Description: Drill Ship moves with dual LBL array, Simrad Kongsberg HiPAP with APOS software and ROV. Array installation and calibration, marker buoy location, spud-in fixing debris surveys. Data acquisition and reporting.

Client: NAVY
Location: Cape Town, South Africa
Description: Project management for the software and data side of a wireless hydrographic real-time data & control centre. Hardware: Edgetech sides can sonar, Reson Seabat 7125 multibeam bathometric sonar and 7128 forward looking sonar & Edgetech Sub bottom Profiler. Software: QINSy, QCloud, Fledermaus SonarWiz & ArcGIS.

Major Project Experience: Thales Geosolutions SA

Client: Pioneer
Location: Mossel Bay, SA
Description: Real time 75khz ADCP Current Measurements / Rig Mounted
Service Period: Installation for one month
Position: One person

Client: Smit Tak
Location: English Channel, France
Description: Real time 300khz ADCP Current Measurements / Vessel Mounted
Service Period: Installation for three month
Position: One person

Client: Cairns Energy
Location: Bay of Bengal, India
Description: 75khz ADCP Current Measurement and Water Level Recorder
Service Period: Monthly for twelve months
Position: Party Chief

Client: BP
Location: Baku, Azerbaijan - Caspian Sea
Description: 300khz ADCP Current Measurements
Service Period: Every two months for six months
Position: Party Chief

Client: AGIP
Location: Pointe Noire, Democratic Republic of Congo
Description: 75khz ADCP, RCM Current and Wavescan Measurements
Service Period: Every two months for twelve months
Position: Party Chief

Client: Pioneer
Location: Mossel Bay, SA
Description: 75khz and 300khz ADCP Current and Waverider Measurements
Service Period: Every two months for twelve months
Position: Party Chief

Client: AIOC
Location: Baku, Azerbaijan - Caspian Sea
Description: 300khz ADCP and 7 RCM Current Measurements
Service Period: Every two months for twelve months
Position: Party Chief

Client: StatOil
Location: Trondhiem, Norway – North Sea
Description: 1 x 75khz ADCP, 18 x Aanderaa RCM 7/8 Current Measurements and Seabird SBE 19 CTD casts
Service Period: Every two months for six months
Position: Party Chief

Client: Norsk Hydro
Location: Bergen, Norway - North Sea
Description: 2 x Directional Waveriders, 300khz, 2 x 75khs's ADCP, 7 x Aanderaa RCM 9 Current Measurements and Seabird SBE 19.
Service Period: Every two months for six months
Position: Party Chief

Client: Enron/Hydrosearch
Location: Burnham on Crouch, United Kingdom
Description: Valeport Tide/Wave Gauge
Service Period: Every two months for six months
Position: One Person

Client: Bristol Port Authority- Avonmouth, Marine Department
Location: Bristol, United Kingdom
Description: 300khz ADCP, vessel mounted real time system demonstration.
Position: One Person

Client: Aker
Location: West Coast, Norway
Description: 300khz ADCP Self Contained System

Position: Party Chief

Client: Norsk Hydro

Location: Omen Lange Field, Norway - North Sea

Description: 75khs's ADCP, Aanderaa RCM 9
Current Measurements and Seabird SBE 19.

Service Period: Every two months for twelve months (Job Extension)

Position: Party Chief

Client: Norsk Hydro

Location: Omen Lange Field, Norway - North Sea

Description: 2 x 75khs's ADCP, 5 x Aanderaa RCM 9 & Wlr8
Two current profile string measurements and Seabird SBE 19.

Service Period: Every two months for twelve months (Job Extension)

Position: Party Chief

Client: Norsk Hydro

Location: Kristiansand, Norway - North Sea

Description: 10 x Aanderaa RCM 7/8
Current Measurements ROV Installation

Service Period: Every two months for six months

Position: Party Chief

Client: Norsk Hydro & StatOil (Partnership Development)

Location: Norway, North Sea

Description: Nortek Aquadopp Current Meters and 75khz ADCP
Current Measurements ROV Installation

Service Period: Every two months for six months

Position: Party Chief

Client: AGIP KCO

Location: Kazakhstan, Atyrau – Caspian Sea

Description: Kick off meeting with client to assess and document
the present and future instrumentation requirements as well as implement a quality
control system for data collection and analysis.

Period: One month

Position: Company Representative

Client: AGIP KCO

Location: Kazakhstan, Atyrau – Caspian Sea

Description: 2 year Service contract initialisation.
Installation and maintenance of real-time weather stations with satellite and radio
modem communications. (Delta and Campbell Scientific Loggers with various
metocean sensors). Tide gauge installations and maintenance (Valeport and
Aanderaa). Oceanographic instrument installation and maintenance (1200khz Rdi
ADCP, Valeport 730D's, temperature stakes, starmon-mini probes and water
samples).
Office and Project Management, logistics & resource planning, implementation and
reporting.

Construction and installation of evaporation pans.

Interacting with client to determine constantly expanding scope of work.

Sourcing materials and sub-contractors for manufacturing and installations.

Period: 4 weeks on/off for 6 months

Position: Field Service Engineer