

PERSONAL DETAILS

Full name Michael Peter Funke
Date of Birth 08/10/1981
Passport Dual citizenship, South African and German

EDUCATION

2006-2009 University of Cape Town BSc (MSc) Oceanography
Research by Dissertation Project titled 'On the Subtropical Front in the South Atlantic Ocean'.

2005 University of Cape Town BSc (Hons) Oceanography

**2001-2004 University of Cape Town BSc Environmental & Geographical Science
and Ocean & Atmosphere Science**

Subjects included Maths, Physics, Chemistry, Applied Maths, Environmental and Geographical Science, Synoptic Climatology, Oceanography and Statistics

**1989-1999 Deutsche Internationale Schule Kapstadt
(German School Cape Town)**

COURSES

2014 January and March

MDC in-house training of work flow and data processing of simulated data using CARIS, Fledermaus and POSPAC

2013 March

C-Nav Client and User training, covering GNSS Basic Principles and Operation, C-Nav Correction Service, C-Nav 3050 GNSS Receivers, RTK & RTK-Extend, C-Navigator II, C-Setup & C-Monitor

2012 October

Offshore Survival, HUET, Fire Fighting and First Aid, SANAS Accredited, Expires 30 September 2015

2010 September

MDC in-house training covering MBES data collection aboard the Geo Manzi in Hout Bay and subsequent processing of the data using QINSy.

WORK EXPERIENCE (detailed voyages outlined in Appendix A)

Ongoing since May 2011 De Beers Drill Ships (Hydrographic Surveyor)

Contracted to Marine Data Consultants. Operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia (DBMN) onboard the mining vessels (MV Gariep, Grand Banks and DebMar Pacific)

Responsibilities: offering support on their USBL drill-bit positioning system, which uses Sonardyne Compatt5 hardware and Ranger Software for positioning, interfaced with QINSy v.8 for plan, profile and 3D visualisation.

Ongoing since December 2006 Various Container Ships (Scientific Observer)

Deploying XBTs on the HRX lines as part of the Volunteer Observing Ship (VOS) programme run by SCRIPPS Institute of Oceanography, UCSD, California, USA; and National Oceanic and Atmospheric Administration (NOAA), Atlantic Oceanographic and Meteorological Laboratory (AOML), Physical Oceanographic Division (PhOD), Miami, Florida, USA

Responsibilities: Supervision of Oceanographic Equipment (XBT, SVP Drifter and ARGO Float) deployment along transects across the Atlantic, Indian and Pacific Oceans.

Ships include: Maersk Constantia, Safmarine Meru, US Ice Breaker NB Palmer, CMA CGM Lavender, Horizon Hawk, Maersk Fuji, Hoegh Tokyo, Hoegh Oslo, Hoegh Asia, Hoegh London, JPO Scorpius, Maersk Vilnius

August 2009 ASCLME SWIOFP leg 1 (Team Leader)

A 2 week voyage along the northern Mozambican coast on the Dr Fridjof Nansen deploying CTD casts and Niskin bottles for Nutrient analysis, as well as pelagic and bottom trawls for marine biology records

Responsibilities: CTD casts, Nutrient analysis, Pelagic and bottom trawls and teaching Mozambican Fisheries employees the skills for scientific analysis

September 2006 and 2007 SANAP Project SOCAB (Team Leader)

Research expedition to Tristan da Cunha to study the near-shore environment of an isolated island.

Responsibilities: Organisation of expedition, XBT, APEX Float deployments, RBR CTD casts and Nutrient analysis.

Dec 2005-Feb 2006 SANAP Project GOODHOPE 5 (Research Assistant)

Three Month cruise aboard the S.A. Agulhas to Antarctica deploying Scientific Equipment.

Responsibilities: XBT, SVP Drifter and ARGO Float deployments, Nutrient analysis.

April 2005 **SANAP Project DEIMEC IV (Research Assistant)**

5 Week Oceanographic survey around Marion Island aboard the S.A. Agulhas.

Responsibilities: XBT, SVP Drifter and ARGO Float deployments, Nutrient analysis, Biological Net trawling.

March 2005 **Harmful Algal Blooms (Research Assistant)**

The HABs Project run by MCM aims to better understand and predict the occurrence of Red tides along the West Coast of South Africa.

Responsibilities: Daily Niskin Bottle and CTD Casts, Nutrient analysis

Other jobs have also included: cashier (5 years), house sitting, translating, sales assistant, barman, salesman, waiter, food preparation and stocktaking.

SKILLS

Leadership

- Team Leader for SOCAB Project at Tristan da Cunha 2006 and 2007
- Class Representative At University
- Prefect at School
- Current work at sea requires taking quick action and initiative during any unforeseen situation to ensure ongoing collection of quality data on both HRX transects and DBMN mining operations

Computer skills

- Basic knowledge and experience of scientific programmes such as AMVERSEAS, CARIS, Fledermaus, POSPAC, QINSy, Eiva Navimodel, MatLab, ODV, Statistica, Envi , ArcGIS and Bilko

Scientific Equipment

- Experience in deployment of XBT's, ARGO Profiling Floats and SVP Drifters
- Maintenance and support of USBL 3D visualisation systems and Sonardyne Compatt 5's
- Experience in operations of RBR Handheld CTD, Niskin Bottles, RMT-8 and Bongo Biological sampling Nets
- Chemical Analysis of Dissolved Oxygen, Silicate, Phosphate, Nitrate and Ammonia

Communication

- Can fully communicate in three languages (English, Afrikaans and German)
- Experience of being a cashier has taught me how to deal with a wide range of people and customer enquiries.
- My degree course greatly enhanced my written and verbal communication skills due to presentations, assignments, essays and projects required.
- After the Antarctica voyage in 2006 I held a limited number of presentations on the topic at schools in Cape Town, as well as in Adrian and Tecumseh, Michigan, USA.

GENERAL

Personality:

I am open-minded, outgoing and confident, good sense of humour, positive attitude, versatile and eager to learn.

Interest:

I enjoy travelling, current affairs, sports, in particular cycling.

Additional Information:

- Fully trilingual (English, Afrikaans, German)
- Code A and B Driving licence (2 Advanced Driving courses, road and 4x4)
- Regular Blood Donor

References: Available on request

Appendix A

Sea going experience

09/12/2014 to 23/12/2014: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems using QINSy and Sonardyne Ranger software, interfaced with C-Nav and Trimble GPS systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

15/10/2014 to 11/11/2014: Marine Data Consultants, offline processing of data at MMT, Sweden using Eiva NaviModel

07/10/2014 to 13/10/2014: Marina Data Consultants, Single Beam survey for a proposed landing site for Beach Energy on Lake Tanganyika, Tanzania, using Odom Single Beam Echo sounder and Cnav GPS system interfaced with QINSy

01/07/2014 to 30/07/2014: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems using QINSy and Sonardyne Ranger software, interfaced with C-Nav and Trimble GPS systems for DeBeers Marine Namibia on the MV Gariep and MV Debmar Pacific

01/04/2014 to 30/04/2014: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems using QINSy and Sonardyne Ranger software, interfaced with C-Nav and Trimble GPS systems for DeBeers Marine Namibia on the MV Gariep, MV Debmar Pacific, MV Coral Sea and MV Grand Banks

20/08/2013 to 29/10/2013: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

01/06/2010 to 30/06/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from Durban, RSA to Freemantle, AUS as part of the Volunteer Observing Ship (VOS) programme on board the Hoegh London

09/04/2013 to 14/05/2013: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

22/01/2013 to 19/02/2013: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

27/11/2012 to 12/12/2012: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

Grand Banks, as well as assisting the Research and Development team in deploying R2Sonic test rig on drill string on the MV Gariep

09/10/2012 to 20/11/2012: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Grand Banks

26/08/2012 to 12/09/2012: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p09 from Tauranga, NZ to Oakland, USA as part of the Volunteer Observing Ship (VOS) programme on board the JPO Scorpius

13/06/2012 to 06/07/2012: National Oceanic and Atmospheric Administration (NOAA), Atlantic Oceanographic and Meteorological Laboratory (AOML), Physical Oceanographic Division (PhOD), Miami, Florida, USA, Deploying XBTs and SVPs on the HRX line AX08 from Durban, RSA to Newark, USA as part of the Volunteer Observing Ship (VOS) programme on board the Mearsk Vilnius

20/05/2012 to 06/06/2012: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p09 from Tauranga, NZ to Oakland, USA as part of the Volunteer Observing Ship (VOS) programme on board the JPO Scorpius

24/01/2012 to 06/03/2012: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Debmar Pacific

28/07/2011 to 03/10/2011: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep MV Coral Sea and MV Debmar Pacific

26/04/2011 to 09/06/2011: Marine Data Consultants, Involved in operation and maintenance of 3D positioning and USBL systems for DeBeers Marine Namibia on the MV Gariep and MV Debmar Pacific

24/02/2011 to 09/03/2011: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p05 from Brisbane, AUS to Osaka, JAP as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

10/10/2010 to 27/10/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p09 from Tauranga, NZ to Oakland, USA as part of the Volunteer Observing Ship (VOS) programme on board the JPO Scorpius

22/05/2010 to 31/05/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p05 from Brisbane, AUS to Yokohama, JAP as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

15/04/2010 to 29/04/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from Durban, RSA to Freemantle, AUS as part of the Volunteer Observing Ship (VOS) programme on board the Hoegh Asia

22/01/2010 to 05/02/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from Durban, RSA to Freemantle, AUS as part of the Volunteer Observing Ship (VOS) programme on board the Hoegh Oslo

01/01/2010 to 11/01/2010: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p05 from Brisbane, AUS to Yokohama, JAP as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

07/11/2009 to 22/11/2009: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from Durban, RSA to Freemantle, AUS as part of the Volunteer Observing Ship (VOS) programme on board the Hoegh Tokyo

09/10/2009 to 21/10/2009: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p06 from Auckland, NZ to Suva, Fiji as part of the Volunteer Observing Ship (VOS) programme on board the Maersk Fuji

06/08/2009 to 20/08/2009: ASCLME SWIOFP leg 1 (Team Leader)
Voyage along the northern Mozambican coast deploying CTD casts and Niskin bottles for Nutrient analysis, pelagic and bottom trawls for marine biology records, as well as teaching Mozambican Fisheries employees the skills for scientific analysis on the MV Dr Fridjof Nansen

16/06/2009 to 04/07/2009: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line p37 from Oakland, USA to Yantian, China as part of the Volunteer Observing Ship (VOS) programme on board the Horizon Hawk

31/03/2009 to 22/04/2009: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from La Spezia, ITALY to Freemantle, AUS as part of the Volunteer Observing Ship (VOS) programme on board the CMA CGM Lavender

11/01/2009 to 21/01/2009: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

25/10/2008 to 06/11/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs and ARGO Floats on the HRX line i15 from Le Port, REUNION to Melbourne, AUS as part of the Volunteer Observing Ship (VOS) programme on board the CMA CGM Lavender

05/10/2008 to 16/10/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

28/06/2008 to 09/07/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

10/05/2008 to 20/05/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

22/04/2008 to 05/05/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i15 from Le Port, REUNION to Melbourne, AUS as part of the Volunteer Observing Ship (VOS) programme on board the CMA CGM Lavender

14/12/2007 to 01/01/2008: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs and ARGO Floats on the HRX line p50 from Punta Arenas, CHILE to Lyttleton, NZ as part of the Volunteer Observing Ship (VOS) programme on board the US Ice Breaker NB Palmer

06/09/2007 to 10/10/2007: SANAP Project SOCAB (Team Leader), Research expedition to Tristan da Cunha to study the near-shore environment of an isolated island, in charge of Organisation of expedition, XBT, APEX Float deployments, RBR CTD casts and Nutrient analysis.

22/07/2007 to 02/08/2007: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

16/04/2007 to 27/04/2007: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Tanjung Pelepas, MALASIA to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Safmarine Meru

13/02/2007 to 18/02/2007: Scripps Institution of Oceanography, UCSD, California, USA, Deploying XBTs on the HRX line i21 from Port Louis, MURITIUS to Durban, RSA as part of the Volunteer Observing Ship (VOS) programme on board the Maersk Constantia

09/09/2006 to 12/10/2006: SANAP Project SOCAB (Team Leader), Research expedition to Tristan da Cunha to study the near-shore environment of an isolated island, in charge of Organisation of expedition, XBT, APEX Float deployments, RBR CTD casts and Nutrient analysis.

01/12/2005 to 19/02/2006: SANAP Project GOODHOPE 5 (Research Assistant)

Three Month cruise aboard the S.A. Agulhas to Antarctica deploying Scientific Equipment, deploying XBTs, SVP Drifters and ARGO Floas, as well as Nutrient analysis.

07/04/2005 to 12/05/2005: SANAP Project DEIMEC IV (Research Assistant)

5 Week Oceanographic survey around Marion Island aboard the S.A. Agulhas, deploying XBTs, SVP Drifters and ARGO Floas, as well as Nutrient analysis and Biological Net trawling.

15/03/2005 to 23/03/2005: Harmful Algal Blooms (Research Assistant)

One week field trip to Lambert's Bay to study the occurrence of Red tides along the West Coast of South Africa, doing Daily Niskin Bottle and CTD Casts as well as Nutrient analysis