

# KOCH, ERICH

## PERSONAL PARTICULARS

Name	Erich Koch	
Place and Date of Birth:	Johannesburg, South Africa;	16/03/1980
Tertiary Education	Cape Peninsula University;	1999-2002
	University of Cape Town;	2003 – 2010
Profession:	Applied Marine Scientist	

## QUALIFICATIONS

BTech Oceanography (Cum Laude)	Cape Peninsula University	2002
BSc Hons Zoology	University of Cape Town	2003
MSc Applied Marine Science (1 <sup>st</sup> Class)	University of Cape Town	2010
PhD Marine Biology (Candidate)	University of Cape Town	2015

## PROFESSIONAL REGISTRATION

Erich is registered as a Professional Natural Scientist in biological/ aquatic science with the South African Council for Natural Scientific Professions (registration # 400224/15)

## SKILLS

- Meteorological and Metoceans project management; electronic systems integration, data management and live data telemetry systems.
- Development and integration of bespoke of environmental monitoring instrumentation developed for specific environmental/ marine / harsh environments.
- Bridging Marine Ecology and Oceanography bridging

## CURRENT EMPLOYER

<b>Name of current organization:</b>	Lwandle Technologies (Pty) Ltd
<b>Position in firm:</b>	Technical Manager & Senior Marine Scientist
<b>Years with firm</b>	7 years

## OVERVIEW

2000 – 03	Research technician and plankton taxonomist related to harmful algal blooms for Marine and Coastal Management South Africa.
2002 – 04	Fisheries observer, Marine mammal observer and Environmental officer.
2004 – 08	Captain of small relief aid and training vessel on Lake Malawi, working as part time teacher in rural Africa.
2008 – 10	Fisheries observer, Marine mammal observer and Environmental officer of various fishery and OGP seismic operations.
2010	GIS modeler to identify risk areas in regards to wave run-up at the City of Cape Town during storm events.
2010 – current	Senior Marine Scientist and Technical Manager for Lwandle Technologies.

## KEY EXPERIENCE OUTLINE

An abridged list of Erich Koch's project experience is presented below:

2017	Development and management of various metocean monitoring projects involving wave rider, water quality and waver radar systems in Saldanha Bay, Port Elizabeth and Durban, South Africa.
2017	Development, initiation, and management of long-term water quality monitoring programs

- in Table Bay and Cape St. Francis South Africa *for* PRDW, South Africa.
- 2016 Coral health survey and habitat reporting for Northern Mozambique Quirimbas's system *for* Fugro EMU, UK.
- 2016 Development and management of near real-time data metocean buoy systems for high frequency turbidity monitoring in Saldanha Bay, South Africa during dredge operations *for* Basil Read.
- 2016 Project manager for routine servicing of X-Band Radar on the PetroSA FA Platform, *for* PetroSA, South Africa.
- 2015 Coral identification guide development for baseline understanding of Palma Bay, northern Mozambique *for* Anadarko Petroleum Corporation, Houston Texas.
- 2015 Coral, seagrass, water and sediment quality monitoring baselines in northern Mozambique *for* Anadarko Petroleum Corporation, Houston Texas.
- 2015 Post ESHIA marine environmental and monitoring systems design for an LNG plant development in northern Mozambique *for* ERM on behalf of Anadarko.
- 2015 Development of water quality guidelines and monitoring program for nuclear cooling water discharges.
- 2015 Research and development of metocean and water quality monitoring systems for near real time data systems.
- 2015 Project manager for routine servicing of X-Band Radar on the PetroSA FA Platform, *for* PetroSA, South Africa.
- 2014 Marine environmental monitoring of dredging activities for berth deepening in Ben Schoeman Dock, Port of Cape Town and managing of the biomonitoring programme on the effects of dredging and dredge spoil behavior *for* the Port of Cape Town *for* Transnet, South Africa.
- 2014 Marine ecology assessment and technical lead on ROV surveys and equipment recovery for the establishment of gas production and LNG facilities in northern Mozambique *for* Anadarko Petroleum.
- 2014 Obtained induction and training of WERA systems with HELZEL MESSTECHNIK GMBH in Germany.
- 2014 Technical lead on the marine environment metocean monitoring for the proposed Durban Dig Out Port *for* Transnet, South Africa.
- 2013 Technical lead on the metocean data collection and reporting for a proposed desalination plant for Worley Parsons, South Africa.
- 2013 Manage deployment of a live-data monitoring buoy used for monitoring water quality in the Cape Town Harbour *for* WBHO during dredging activities.
- 2012 Marine water and sediment quality baseline onsite investigation and marine ecology risk assessment for the refurbishment and development of an iron-ore jetty in Monrovia, Liberia *for* ERM, South Africa.
- 2011 Marine water and sediment quality baseline investigation onsite and reporting for the deepening of Lobito Bay, Angola *for* ERM, South Africa.
- 2011 Installation of real time turbidity systems in the Seychelles for Eden Island developments.
- 2010 Instrumentation technician *for* a number of local and international metocean field surveys.



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