

JEAN-PAUL SKOCZYLAS – Water Engineer and Manager

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Personal Summary

I am the managing director and principal engineer of Water Consulting East Africa (WC EA). My responsibilities include business development, financial accounting and technical engineering delivery. For WC EA, I have worked with international agencies, NGOs and private companies including USAID, UNICEF, IFC, Bechtel, Rwanda Ministry of Agriculture and the Virunga National Park. During my career I have accrued professional experience in the UK, UAE, Qatar, Rwanda and DRC, gaining a range of project, commercial and hydraulic engineering skills through aiding the delivery or improving the profitability of a range of large multidisciplinary projects. I have developed a breadth and depth of knowledge of wet utility and hydraulic design in differing contexts and the softer skills of planning, organising and delivering work to budget in a timely fashion. Specific areas of expertise include project scoping and pricing, surface water flood modelling studies, pressure pipelines, gravity and pressure networks, surge analysis and basic contract management.

Employment History

Feb 2014 to Present: Managing Director and Principal Engineer - Water Consulting East Africa

In late 2013, I resigned from Halcrow a CH2M Hill company and founded Water Consulting East Africa (WC EA) in order that my wife could fulfil her life long ambition to work in development in Rwanda. As Managing Director, I have performed the financial and business development roles and provide services for many clients including:

Nasho II Irrigation Project - MINAGRI - Rwanda

Delivering specialist design, procurement and construction supervision services on this 1,400 Ha centre pivot irrigation project.

Private Sector Agriculture Development - IFC - Rwanda

Delivered specialist advisory services on small holder and industrial farming irrigation for business case modelling.

Rugari Water Supply Project - Virunga National Park - DRC

Delivered the technical design, procurement support and construction supervision services on the rural water supply project.

CBEHPP National Action Plan - UNICEF - Rwanda

Delivered Environmental Health Program Workshop services and producing national action plan for this behaviour change program.

Rwanda Water Sector Study - USAID - Rwanda

Delivered Rwanda specific water and sanitation knowledge and capacity building services in order to achieve optimal project selection, planning and execution.

Rwanda Cricket Stadium Water Supply - RCSF - Rwanda

Delivered a water supply feasibility study for the new national Rwandan cricket stadium.

Cactus Green Park - FONERWA – Rwanda

Delivered wet utility FEED design and eco-optimisation services on Rwanda's first holistically designed residential eco-development.

CHAN 2016 - Bechtel Corporation - Rwanda

Delivered project scoping, health and safety site appraisals, and general engineering services for Bechtel on the CHAN 2016 program and adjacent business development activities.

2009 to Dec 2013: Water Engineer - Halcrow a CH2M Hill Company - UAE and Qatar

During 5 years in the Middle East I constantly increased my level of responsibility within Halcrow. As a key member of the Dubai water business group, I lead the wet utility design of a range of scale projects from a 6

hectare (ha) park to a 850 ha development that supports a daily population of 300,000 visitors. My notable contributions to projects are outlined below:

Doha South STP Upgrade - L&T - Qatar

As assistant project manager I created, implemented and managed a financial stabilisation and recovery process through streamlining variation capture and implementing risk mitigation processes in order to bring this \$5 million fee project back towards a positive contribution. I achieved:

- Efficient communication and liaison between; the site in Doha, the commercial office in central Doha and the design offices in Sharjah and Pakistan.
- A holistic appreciation of the entire multidisciplinary project.
- A settlement to change from a lumpsum to a time charge contract.

Dubai Parks - Meraas - UAE

As wet utility design manager I delivered the concept wet utility design and preliminary sewerage and storm water design for this 850 ha themed development. The scope included:

- Master planning, optioneering, feasibility and value engineering
- Demand analysis
- Authority liaison and approvals, stake holder management
- Wet utility drawings, specifications, reports

Lusail - Qatari Diar - Qatar

Responsible for various roles on this 35km² \$30 billion project including; potable water network design manager, EOT team member and project reforecaster. I achieved:

- A vital contribution to the creation of \$29 million extension of time and variation claim by substantiating the majority of the heads of claim.
- Organised, planned and re-forecasted the remaining scope of the project in order that Halcrow could cease to work on the project and minimise costs due to client non-negotiation over variations to the contract.
- Lead the potable water network development, implemented many design changes to the network, performed a chlorination analysis and tendered 5 construction packages.

Business Bay Revalidation, Dubai Properties, UAE

As a design engineer, I appraised the sewerage and potable water networks of Business Bay against the current master plan 7 years on from the original design. I produced a report stating opportunities and constraints of the networks and provided options for remedial works that could increase the value of the development for the client.

Jumeriah Lakes Towers Park and Sewerage Projects – DMCC – UAE

Wet utility design, construction support and health and safety site assessments.

Yas Island - Aldar - UAE

Various roles in the master planning, design and construction support of the pressure networks of this 2,500 hectare \$45 billion project.

Jebel Ali Port Terminal 3 Bid – Dubai World - UAE

Complied the financial and technical bid for the FEED design of this \$300 million project.

Various Other

Many surge analyses, maritime project tender appraisals, QA/QC office liaison.

Sep 2007 to 2008: Water Engineer – Halcrow - UK

As a surface water hydraulic engineer, I was responsible for producing and verifying solutions to flood events using 1D and 2D surface water modelling packages and reporting on studies.

Winchester Flood Study – Environment Agency – UK

Lead a flood study in Winchester on the River Inchen in this particularly difficult chalk catchment. Produced, calibrated and reported on the ISIS TufLOW 2D flood model.

Norfolk Broads Flood Warning System – Environment Agency – UK

Provided ISIS hydraulic modelling support to the tidal influenced Norfolk Broads in order to produce a real time flood warning system.

National Flood Warning System – Environment Agency – UK

Participated in a pilot study for the creation of a coarse real time national surface flood warning model in ArcGIS.

Flood Risk Assessment (FRA) – Blazedean Limited – UK

Produced an FRA for a hotel development. This required providing evidence for and compliance to the Environment Agency's strict requirements for development within the 200 year coastal flooding envelope.

Flood Studies – Environment Agency – UK

Contributed to or reviewed parts of the following:

- Hampshire Avon flood defence options
- River Lambourn Restoration
- Thames 2100
- Churn Flood Study
- North Dorset SFRA
- East Dorset SFRA
- River Nene CMP

Surge Analyses – Various – UK, Libya, UAE

In addition to the flood to surface water flood modelling, I gained significant experience and expertise in pipeline surge analysis working projects in Swindon, Yorkshire, Sharjah and the large Sirt irrigation network in Libya.

Sep 2002 to Jul 2003 & summer 2006: Student Engineer – Halcrow - UK

As a Year in Industry student and university summer student at Halcrow's head office, I was responsible for creating and calibrating ISIS surface water models of many catchments contributing to Catchment Flood Management Plans and flood studies. Under guidance, I achieved the creation and calibration of Halcrow's largest ever ISIS model of the river Nene and its tributaries from Northampton through Peterborough to confluence with the sea.

Skills

Software

Specialist knowledge: Microsoft Office, WaterCAD, WinDES, EPANET, COUP, TuFlow and ISIS hydraulic modelling packages.

Working knowledge: Microsoft Project, ArcView, ArcGIS, MapInfo, AutoCAD.

Languages

English mother tongue, French basic

Interests

Development engineering, photography, travel, rugby, golf

Education

University

2006-2007 Homerton College, Cambridge University. **MEng (hons) Engineering**

2003-2006 Homerton College, Cambridge University. **BA (hons) Engineering**

University Positions of Responsibility

2006 Cambridge Chinese Cultural Society, China Tour Presenter

2005-2006 Homerton College, Cambridge University: Rugby captain

2004 ELST Tibetan Society: English Teacher in Darmasala, India

High School

1997-2002 Sedbergh School, Cumbria, UK

A-Levels Maths (A), Physics (A), Chemistry (A), AS Further Maths (A), AS Biology (A)

References

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