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Summary

Professional Engineer (U.S. - Virginia) with three years of experience managing rural water treatment stormwater management design, and groundwater use projects in Rwanda; and ten years experience in the United States within the field of civil and environmental engineering focused on environmental and human health assessments, impact and risk evaluations, groundwater hydrology, well and borehole installations, and military munitions response programs. Us based clients include heavy and light industry, military facilities, government facilities, pharmaceutical manufactures, and petroleum facilities. Rwanda based clients include multi-national Non-Governmental Organizations, national civil works firms, and innovative businesses addressing developing world health and infrastructure challenges.

Proven ability to manage complex independent and team tasks within an international context. Successfully managed multi-nationality project teams with diverse educational backgrounds and professional experience, while meeting program goals on budget and on schedule. Professional experience in a developing country with a stringent legal framework (Rwanda), and in the United States. Experienced at managing teams and workflow across office and field settings in low- and high-resource conditions and cultures. Familiar with larger multi-agency teams, including program teams consisting of government agencies, health care workers, development NGOS, and local stakeholders.

Excellent writing, organizing, and technical skills focused on environmental health and water development. Understanding and experience with Rwandan governmental policies and goals for health, water, and development.

Experience

2014- Present
Kigali, Rwanda

Water Consulting East Africa Limited (WCEA)

Consulting Environmental Engineer

Providing direct and in-direct development, planning, design, construction, and environmental permitting assistance to a variety of clients within the development sector. Projects focus on environmental impact assessments, water resource planning, modernization of irrigation, and rural water delivery across the country. WC EA is a new firm in Kigali, Rwanda started by two engineers with each over 10 years experience and has been recognized as the most experienced and professional in the country.

- Lead engineer for environmental impact and groundwater projects; including permitting, impact evaluation, and mitigation measure design.
- Supporting engineer for water delivery design projects for stadium and crop irrigation projects.
- Site manager for wastewater de-sludging pilot-plant design and construction
- Stormwater design and construction support for schools across country and within refugee camps.
- Formal and informal support for water resource planning and environmental impact analysis of development projects across country.

2014
Kigali, Rwanda

Poultry East Africa Limited (PEAL)

General Manager

Managed entire operations for foreign based Owner/Managing Director; including developing three business lines (Feed Mill, Poultry Farm, and Processing Plant) for Rwanda's first modern integrated poultry farm and largest broiler farm. Company designed and implemented by foreign investor to directly address stunting due to lack of animal protein consumption by local residents.

General Manager

- Completed development of three core business lines including a poultry feed mill, an eight house poultry farm, and processing plant (slaughter house), for what is currently the largest and most modern farm in Rwanda and Rwanda's first integrated poultry farm.
- Managed construction, personnel, sales, and business management activities for company. PEAL's approximate annual budget is one and a half million USD.
- Extensive interactions and negotiations with local and national governmental bodies

within the Ministries of Infrastructure, Commerce, and Agriculture along with their implementation arms.

- Began development partnerships with NGOs and international development agencies (USAID) to develop new programs to improve diet and nutrition across the country.

2013 - 2014
Kigali, Rwanda

Impact Carbon (Non-Governmental Organization)

Country Director / Program Manager

Represented Impact Carbon (US-based INGO) to the Government of Rwanda and managed the countrywide activities for the Safe Water Access Program, focused on developing water hygiene practices and access to water treatment technologies. Oversaw all activities in Rwanda with frequent travel to Uganda as part of the East African implementation team. Project canceled due to funding limitations and ongoing upset in the UN based carbon credit markets.

Program Manager

- Developed and managed all communications with national and local governmental bodies for partnership development, program registration, and program implementation. Worked directly with Ministry of Health, Ministry of Education, Ministry of Infrastructure, Electricity, Water, and Sanitation Authority, Ministry of Local Government, as well as local and International NGOs.
- Designed and implemented all program activities for the pilot phase, which included survey of 10 districts for current water treatment usage, development of trial program for household and schools water treatment programs, and development of beneficiary-facing material to promote water treatment development.
- Responsible for management of 4 employees, hiring, budget development, and financial records for Impact Carbon Rwanda. The Safe Water Access Program stayed under budget throughout the project, while meeting all deadlines and goals established by Program Directors. Monthly budgets ranged from \$5,000 to \$10,000 during pilot phase.
- Provided technical expertise, training, and education to both citizens, ministerial staff, and employees on water treatment technologies and water hygiene while promoting both the Program and Government of Rwanda's health and hygiene initiatives.

2013
Ouagadougou,
Burkina Faso

Engineers Without Borders

Professional Mentor

Oversaw and advised a team of undergraduate student engineers from the University of Maryland on a two-week field visit to maintain water treatment and solar lighting projects.

Professional Mentor

- Provided on-site support for an EWB student team for a drinking water project, which included technical and professional mentoring, assisting the student lead with negotiations with local authorities, developing solutions for complex technical problems that had to be maintained by local technicians and users. Projects included two old solar light projects, both of which were using an outdated design, and a slow-sand biofilter.

2007 - 2013
Arlington,
Virginia

ARCADIS / Malcolm Pirnie, Inc.

Project Manager / Environmental Engineer

Nine years experience with an environmental engineering firm, moving from an entry-level engineer to a project and task manager responsible for multiple long-term technically demanding projects focusing on human health risk assessments and long term monitoring and compliance programs for both USG, municipalities, and industry.

2003 - 2007
Newport News,
Virginia

Monitoring and Evaluation

- Responsible for planning, managing, and performing environmental assessments for both human health and the environment for a wide range of clients. Projects involved health risks stemming from environmental impacts, site reuse planning, and human encroachment issues. These included low-budget high-liability human health and environmental risk projects that demanded attention to detail and quick assessments of both human health risks, and liability risks to clients and stakeholders.
- Produced assessment and evaluation reports for clients and stakeholders on current conditions and potential future hazards, and designed monitoring and evaluation procedures for complex projects to meet multi-agency needs and requirements.
- Managed long term human health and environmental risk assessments within evolving local and federal laws and regulations, and growing public scrutiny of environmental health risks.

Project Management

- Managed engineering projects focusing on human health impacts caused by impacted water, sediment, and soil, in a wide variety of ecosystems in developed, undeveloped, and redeveloping areas.

- Projects required gaining support from USG (EPA), local and state government, and local stakeholders, while working with a project team from different offices across the United States and often consisting of multiple companies, and government regulators and partners.
- Projects included highly technical assessment and restoration programs and for sites with high levels of public awareness and concern for clients and shareholders; including local government, US Government, industry, local communities, and state and federal regulators.

Team Leadership

- Extensive experience working with diverse project teams made up of engineers, scientists, and subcontractors working simultaneously on deliverables.
- Experienced with cross-discipline and organization teams including local government, industry, and regulatory agencies.
- Responsible for managing disputes between team members, clients, and local community, while maintaining public relations with concerned local communities and clients.

Budget Management

- Developed and managed budgets and costs assessments for projects ranging from \$2,000 to \$2,000,000 annual costs, and responsible to completing those projects on schedule and at budget.
- Managed subcontractor agreements, contracting, and payments for complex projects with multiple subcontractor requirements.

Field Experience

- Field team leader with extensive experience working remotely throughout the U.S. eastern seaboard and southeastern United States.
- Proficient at making urgent field decisions and coordinating field activities with other operations and decision makers.
- Experience dealing with unexpected situations and developing solutions using regionally available resources.

University of Virginia – Department of Civil Engineering

Research and Teaching Assistant

- Developed teaching plans, taught small-group session classes, and mentored undergraduate students in three applied mathematics courses (linear algebra, calculus, and differential equations).
- Performed self-guided research into reactive barrier technologies for landfilling and site remediation applications. Research concluded with master's dissertation and peer-reviewed published article.

2001 - 2003
Charlottesville,
Virginia

Education

2001 - 2003
Charlottesville,
Virginia

University of Virginia, Department of Civil/Environmental Engineering

Master of Science in Civil/Environmental Engineering

Focus of Studies: groundwater and soil chemistry, sediment transport, surface activated compounds (soaps, detergents, and soil treatments), fate and transport of groundwater, and site assessment for orphaned and abandoned mines.

Dissertation: Effects of Organoclay Amendments on Geosynthetic Clay Liners. An investigation into reactive barriers for landfills and impacted groundwater sites, to reduce the transport of volatile organic compounds in groundwater.

Lehigh University, Department of Civil Engineering

Bachelor of Science in Civil Engineering

Focus of Studies: Groundwater chemistry and water treatment for drinking water and wastewater processes.

1997 - 2001
Bethlehem,
Pennsylvania

Skills

Skills

International program management, monitoring programs and data collection and assessment, budget forecasting and management, government outreach and cooperation, technical writing, geographic information systems (GIS), computer aided design (CAD), cost assessment for capital projects, statistics for environmental sampling, surveying, field project management,

Languages

English (native), French (novice), Kinyarwanda (novice), Italian (novice), and Korean (novice).

Memberships

- Engineers Without Borders (2006-2013)
- American Society of Civil Engineers (1998-2013)
- Society of American Military Engineers (2004-2013)
- Nature Conservancy (2002-2013)