


1.1 PERSONAL PROFILE

1.1.1 Personal Details

Title / Qualifications	(Consulting) Engineer / BSc, MSc
Department	Agricultural and Biosystems Engineering
Designation / Position	Lecturer
Email	nyaguti.john@ku.ac.ke ; nyagutijohn@yahoo.com
Contact Address	19632-00100 NAIROBI
Area of Specialization	Irrigation and Drainage Engineer
Research Interests	Irrigation & Drainage, Water Resources, Energy
Photo	

1.1.2 Academic and Professional Qualifications

- MSc (Soil and Water Engineering), University of Nairobi, Kenya, 1987 - 1989.
- BSc (Agricultural Engineering), University of Nairobi, Kenya, 1980 – 1984.
- Consulting Engineer , Engineers Board of Kenya
- Registered / Qualified Water Professional (Irrigation, Small Dams), Ministry of Water and Irrigation

1.1.3 Employment History

Date : November 2017 to date
Employer : Kenyatta University, Agric. & Biosystems Engineering Dept,
Position held : **Lecturer**
Location : Kenya

Date : 2016 to date
Employer : Kenya Roads Board,
Position held : Director (representing Institution of Engineers of Kenya)
Location : Kenya

Date : May 2014 to date
Employer : GEDO Associates Ltd,
Position held : Managing Director / Senior Irrigation and Drainage Engineer
Location : Kenya

Date : 2006 to April 2014
Employer : GIBB Africa Ltd,
Position held : Operations Manager - Irrigation
Location : Kenya

Date : 2001-2009
Employer : GIBB Africa Ltd
Position held : Principal Engineer
Location : Kenya

Date : 2000-01
Employer : Ministry of Agriculture
Position held : Superintending Irrigation Engineer
Location : Kenya

Date : 1984-2001
Employer : Ministry of Agriculture
Position held : Assistant Engineer, Engineer and Superintending Engineer
Location : Kenya

1.1.4 Achievements

2017 to date Lecturer, Kenyatta University / Department of Agriculture and Biosystems Engineering.

2018 Design Irrigation Engineer – Detailed Design of In-field Irrigation System for Lower Nzoia Irrigation Project Phase 1 (4000ha), Siaya and Busia Counties; Ministry of Water and Irrigation / Kenya Water Security and Climate Resilience Project, Kenya.

2017 Irrigation Engineer – Preparation of Resettlement Action Plan for Lower Nzoia Irrigation Project Phase 1 (4000ha) and Nzoia Flood Protection Structures, Siaya and Busia Counties; Ministry of Water and Irrigation / Kenya Water Security and Climate Resilience Project, Kenya.

2016 7 Senior Irrigation Engineer – Detailed Design Review / Tender Documents for Lower Nzoia Irrigation Project Phase 1 (4000ha), Siaya and Busia

- Counties; Ministry of Water and Irrigation / Kenya Water Security and Climate Resilience Project, Kenya.
- 2014 7 Team Leader/Irrigation – Feasibility studies, detailed design and preparation of tender documents for Nyabomite Irrigation Development Project (2000ha), Nyamira County; National Irrigation Board, Kenya.
- 2013-6 Team Leader/Irrigation Engineer – Feasibility studies, detailed design and preparation of tender documents for Upper Nzoia Irrigation Development Project (9500ha), Bungoma County; National Irrigation Board, Kenya..
- 2013-5 Team Leader/Project Manager – Feasibility studies, detailed design and preparation of tender documents for Burangi Irrigation Development Project (2000ha), Kilifi County; National Irrigation Board, Kenya.
- 2013 Team Leader/Project Manager – Feasibility studies, detailed design and preparation of tender documents for Upper Sio/Malakisi Irrigation Development Project (2000ha), Bungoma County; National Irrigation Board, Kenya..
- 2013 Team Leader/Project Manager Feasibility studies, detailed design and preparation of tender documents for Kirumi Kia Mujari Irrigation Development Project (500ha), Machakos County, Ministry of Agriculture, Kenya.
- 2013 Team Leader/Project Manager – Manager Feasibility studies, detailed design and preparation of tender documents for Kiboko Uamani Irrigation Development Project (200ha), Machakos County, Ministry of Agriculture, Kenya.
- 2013 Team Leader/Project Manager: Review of Detailed Designs and Tender Documents and Construction Supervision of Lower Kuja Irrigation Development Project Lots 2 and 3 (3900ha), National Irrigation Board, Kenya.
- 2013 Team Leader/Project Manager – Feasibility Study for Kayatta Irrigation and Drainage Project (5000ha), National Irrigation Board / Government of Kenya and BADEA.
- 2013 Design Engineer/Intake – Review and Modifications of designs for Lower Nzoia Irrigation Development Project (8,000ha) under the Kenya Natural Resources Management Project, National Irrigation Board / Government of Kenya and World Bank.
- 2012 Lead Expert – Options Assessment of Intake Facilities for Lower Nzoia Irrigation Development Project (8,000ha) under the Kenya Natural Resources Management Project, National Irrigation Board / Government of Kenya and World Bank.
- 2012 Lead Expert – Quality Control of the Lower Nzoia Irrigation Development Project (Phases I and II, 8,000ha) under the Kenya Natural Resources

- Management Project, National Irrigation Board / Government of Kenya and World Bank.
- 2011/2 Team Leader/Project Manager: Review of Detailed Designs and Tender Documents and Construction Supervision of Lower Kuja Irrigation Development Project Lots 1 (625ha), National Irrigation Board, Kenya.
- 2011/2 Team Leader / Irrigation Engineer - Feasibility studies, detailed design and preparation of tender documents for Bondo and Rachuonyo Clusters Irrigation Projects, National Irrigation Board, Kenya.
- 2011-2 Team Leader/Irrigation and Water Resources Engineer-: Pre-feasibility Studies for an Irrigation Development and Watershed Management Project in the Lake Victoria Basin in Tanzania (21,600 ha), Nile Basin Initiative / Government of Tanzania.
- 2011 Senior Irrigation and Drainage Engineer-: Review and modification of design criteria, canal and drainage system and farm roads; preparation of tender documents and assistance in prequalification and tendering of works and supervision of construction works for the JICA financed Mwea Irrigation Development Project (10,000 ha), National Irrigation Board, Ministry of Water and Irrigation, Kenya.
- 2010 Project Manager/Team Leader – Additional surveys and investigations, preparation of detailed designs, assistance in prequalification of contractors and tender documents preparation and construction supervision for the Mwea Irrigation Scheme Water Management Improvement Project (10,000ha) under the World Bank financed Kenya Natural Resources Management Project, National Irrigation Board, Ministry of Water and Irrigation, Kenya.
- 2010 Project Manager/Team Leader – Feasibility studies, detailed designs and tender documents preparation – Lower Kuja Irrigation Development Project (8,000ha), National Irrigation Board, Ministry of Water and Irrigation, Kenya.
- 2009-10 Project Manager/Team Leader – Detailed designs, tender documents preparation and construction supervision of Ena, Mbwiru, Kutus East and Kithumbu gravity-fed sprinkler irrigation schemes (291ha), Smallholder Irrigation Programme, Mt. Kenya (SIPMK), Kenya.
- 2008-09 Team Leader - Assessment on Current Irrigation and Drainage Condition in Mwea Irrigation Scheme, Special Assistance for Project Preparation (SAPROF) for Mwea Irrigation Development Project (10,000 ha) on behalf of Nippon Koei/JICA for National Irrigation Board, Kenya.
- 2008-10 Project Manager – Feasibility study, detailed Designs, tender documents preparation and construction supervision of the Rehabilitation of Limphasa

- (400ha) and Likangala (600ha) irrigation projects, Irrigation, Rural Livelihoods and Agriculture Development Project (IRLADP), Malawi
- 2008 Project Manager/ Team Leader –Detailed designs, tender documents preparation and construction supervision of Northern Plains Irrigation Project (1,400ha) Phase II (NPIP-II), Mauritius.
- 2006-07 Project Manager – Feasibility study, detailed designs, tender documents preparation and construction supervision of 22 irrigation projects (722ha) under the Horticulture and Food Crops Development Project (HFCDP), Malawi.
- 2006/7 Project Manager/Team Leader – Detailed designs, tender documents preparation and construction supervision of Kioru Giaki and Nkabunue Muguna irrigation schemes (206ha), Smallholder Irrigation Programme, Mt. Kenya (SIPMK), Kenya.
- 2006 Project Engineer – Identification, detailed investigations, detailed designs, tender documents preparation and construction supervision of small holder irrigation schemes in Mt Kenya Region, Smallholder Irrigation Programme Mt. Kenya (SIPMK), Kenya (700ha).
- 2005 Environmental Auditor – Williamsons and Sotik Tea Estates and IFAD funded small scale irrigation projects, Kenya.
- 2004 Project Manager / Design Engineer – Detailed design and construction supervision of small scale pump-fed irrigation projects (100ha), ADRA Belet Weyne Food Security Project, Somalia.
- 2003 Hydraulic Engineer – Pre-Feasibility and Feasibility studies, detailed design and tender documents preparation for the Rehabilitation and Development of Hola Irrigation Scheme (3,400ha), Kenya.
- 2002 Irrigation Engineer – Technical audit and evaluation of Mwea Irrigation Scheme Infrastructure (6,000ha) and the status and capacity of farmers' organisation for operation, maintenance, Kenya;
- 2002 Team Leader / Irrigation Engineer - Detailed investigations, detailed designs and tender documents preparation for Nyanzwa and Irindi Irrigation Schemes, Tanzania;
- 2001-02 Team Leader / Irrigation Engineer – Review of engineering designs and bidding documents for Kivulini, Mapongoro and Longoi smallholder Irrigation Schemes (1,060 ha), Tanzania;
- 2001-02 Team Leader / Irrigation Engineer - Detailed investigations, detailed designs and tender documents preparation for Lumuma Irrigation Scheme (890ha), Tanzania;
- 2000 Team Leader / Irrigation Engineer for Appraisals and Evaluation of Drip and sprinkler Irrigation systems in Mtwapa, Kibos and Opapo Research stations, Kenya Sugar Authority, Kenya.

1998-01	Project Irrigation Engineer - Detailed investigations, detailed designs, tender documents preparation, construction supervision of small scale irrigation projects (2,500ha) in 7 districts in Eastern Province under the Horticulture/Traditional Food Crops Development Project, Kenya.
1990-95	Senior Irrigation Engineer – Responsible for planning, design and construction supervision of smallholder irrigation schemes as well as staff training, Irrigation and Drainage Branch, Ministry of Agriculture, Kenya.
1990-95	Senior Irrigation Engineer – District Irrigation Profiles. Responsible for inventory of existing and potential irrigation sites, priority ranking of the projects for implementation, water availability assessment and determination of district irrigation potential and action plans, Irrigation and Drainage Branch, Ministry of Agriculture, Kenya.
1992	Counterpart Irrigation Engineer to JICA Irrigation Engineer – National Water Master Plan. Responsible for data collection, analysis and preparation of Agriculture/Irrigation Sector Master Plan component, Ministry of Water Development, Kenya.
1987-89	Post Graduate Student – MSc in Soil and Water Engineering. Prepared and submitted MSC thesis on Drainage for Salinity Control in Kimorigo / Kamleza Irrigation schemes, Taveta as partial fulfilment of the MSc course, University of Nairobi, Kenya.
1984-1987	Provincial Irrigation Engineer – Responsible for planning, design and construction supervision of smallholder irrigation schemes, Provincial Irrigation Unit - Coast Province, Irrigation and Drainage Branch, Ministry of Agriculture, Kenya.

1.2 Publications

1.2.1 Referred Journals

N/A

1.2.2 Books and Books Chapters

N/A

1.2.3 Conference / Workshops / Seminars

1.2.4 Conference Papers

- *Nyaguti, J.O, 2000. Role of Agricultural Engineers in the New Millenium: Institution of Engineers of Kenya and Engineers Registration Board, Conference on The Engineer in Society in the New Millennium at Grand Regency Hotel, Nairobi, Kenya, April 2000.*
- *Nyaguti, J.O, Odhiambo, F.O. and L.O. Gumbe. 2000. Water Resources and Infrastructure Development in Kenya Proceedings of the Symposium of Water*

Resources and Sanitation Management in Kenya. Tom Mboya Labour College. Kisumu 11- 12 May.

- *Nyaguti, J.O, 2001. Under-Utilization of Our Water Resources for Agricultural Development : Institution of Engineers of Kenya and Engineers Registration Board, Conference on Water and Energy for Survival at Hotel Inter-Continental, Nairobi, Kenya, May 2001.*
- *Nyaguti, J.O, 2011. The Engineer and Irrigation Development in the Counties: Institution of Engineers of Kenya, International Conference on Engineering Better Counties and Cities for Better Living at Laico Regency Hotel, Nairobi, Kenya, May 2011.*
- *Nyaguti, J.O, 2017. Engineering Innovations and Strategic Solutions for Improved Agriculture and Value Addition, 24th Institution of Engineers of Kenya International Conference on Engineering, Innovation and Strategic Solutions at Hotel Intercontinental, Nairobi, Kenya, May 2017.*
- *Nyaguti, J.O, 2019. Irrigation and the Big Four Agenda, Kenya Society of Environmental and Biological and Agricultural Engineering, 2019 Conference on Engineering The Big Four Agenda at University of Nairobi Towers (14 – 15 November 2019).*

1.2.5 Workshops Papers

N/A

1.2.6 Seminar Papers

N/A

1.2.7 Student Co-authored Publications

N/A

1.2.8 Other Publications

N/A

1.3 Research

N/A

1.4 Funded Projects

N/A

1.5 Conference / Workshops / Seminars Attended

1.5.1 Conferences Attended

- 5th Africa Engineering Week / 3rd Africa Engineering Conference, 17-21 September, Pride Inn Hotel, Mombasa, Kenya.
- 26th Institution of Engineers Conference, 3-6 September 2019, Leisure Lodge, Mombasa, Kenya.
- 2019 Kenya Society of Environmental, Biological and Agricultural Engineers, 14 – 15 November 2019, University of Nairobi Towers, Nairobi, Kenya.

1.5.2 Workshops Attended

- Stakeholders Meeting on Draft Irrigation Regulations, 2-3 December 2019, Kenya Agricultural and Livestock Research Organization Headquarters, Nairobi, Kenya..

1.5.3 Seminars / Training Attended

- Training on Public Private Partnerships in the Road Sector, 8 – 12 April 2019, Barcelona, Spain.
- Executive Seminar – Performance Based Contracts, 20 – 30 October 2019, Orlando, Florida, USA.

1.6 Supervision of Post Graduate Students

1.6.1 Masters

N/A

1.6.2 PhD

N/A

1.7 Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner, Patents)

N/A

1.8 Community Service and Other Engagements

- Director, Kenya Roads Board

1.9 Affiliation of Professional Bodies

- Member of the Institution of Engineers of Kenya (MIEK);
- Registered Engineer (Engineers Registration Board);
- Consulting Engineer (Engineers Board of Kenya);
- Qualified Water Consultant (Engineer) – Irrigation and Dam Design
- Member of the Kenya Society of Agricultural Engineers

2.0 National and International Awards and Recognitions

N/A

2.1 Administrative Positions Held

2.1.1 Recognized University Administrative Positions

N/A

2.1.2 Other Administrative Positions Held

N/A