

CURRICULUM VITAE

Name : John Otieno **NYAGUTI**
Profession : Irrigation & Drainage Engineer
Date of Birth : 20-10-1958
Marital status : Married
Nationality : Kenyan
Contacts : Mobile: 0721790750; Email: nyagutijohn@yahoo.com.

Membership in Professional Societies:

- Corporate Member of the Institution of Engineers of Kenya (MIEK);
 - Professional (Registered) Engineer (Engineers Board of Kenya);
 - Consulting Engineer (Engineers Board of Kenya);
 - Qualified Water Consultant (Engineer) – Irrigation and Dam Design
 - Panelist - Agricultural Engineering Panel (IEK and EBK).
 - Fellow – Kenya Society of Environmental, Biological and Agricultural Engineers
-

Key Qualifications:

- Experienced irrigation and drainage engineer with an MSc in Agricultural Engineering (Soil and Water) and a BSc in Agricultural Engineering;
 - Over 37 years' experience in the field of irrigation and drainage, covering varied areas such as project planning and identification, irrigation master plan preparation, feasibility studies and detailed designs, preparation of tender documents, supervision of construction works and planning for operation and maintenance of irrigation infrastructure;
 - Has experience for small, medium and large scale irrigation projects from under 100ha to over 20,000ha covering studies, design and implementation of various irrigation systems which include gravity and pump-fed irrigation systems for surface, sprinkler and drip irrigation methods;
 - Has experience in carrying out studies and design for various irrigation components / works such as head works (weirs and intakes), flood control and drainage works (dykes and drainage systems) sedimentation basins, conveyance and distribution systems (pipe and canal systems) and related structures for small, medium and large scale irrigation projects;
 - Experienced in and conversant with farmers' involvement and participation in planning, design, implementation and operation and maintenance of irrigation and drainage schemes;
 - Experienced in technical audit / valuation of built-up irrigation and drainage systems;
 - Experienced in training of engineers and farmers organizations in planning and design of irrigation schemes and in operation and maintenance;
 - Has experience in coordination of multi-disciplinary teams in irrigation and drainage projects either as Team Leader and / or Project Manager;
 - Has experience in undertaking both government and donor funded projects as well as privately and NGO financed projects;
 - Has interacted with a number of donor organizations including World Bank, European Union (EU), IFAD, ADB, KfW, DANIDA, SIDA, JICA, Netherlands, etc;
 - Conversant with FIDIC, AfDB, World Bank and EU Conditions of Contract;
 - Working experience for projects in East, Central and Southern Africa including Kenya, Tanzania, Somalia, Malawi and Mauritius;
 - Qualified in a wide range of computer applications in irrigation systems design;
 - Fluent in English and Kiswahili.
-

Education:

MSc (Soil and Water Engineering), University of Nairobi, Kenya, 1987 - 1989.
BSc (Agricultural Engineering), University of Nairobi, Kenya, 1980 – 1984.

Other Training:

- Irrigation Planning & Design Courses; Ministry of Agriculture; Kenya (1984 -1987)
 - Irrigation scheme development course (Gravity Surface Scheme);
 - Pump & Sprinkler system design;
 - Hydraulic structures design;
 - Projects preparation.
 - Low pressure pipe distribution system; organised by Water & Engineering Development Center Longhborough, UK. Nairobi ;Kenya (1991)
 - Computer Aided design (MIDAS); Hydraulics Research, Wallingford; Oxfam UK (1992)
 - Agricultural Land & Water Resources Development – JICA; Tokyo Japan (1995)
 - Tendering for, Supervision and Management of Construction Contracts : Ministry of Agriculture; Conducted by Grabowsky & Poort Consultants in Nairobi; Kenya
 - Computer training (MS Office Suite, AutoCad).
-

Employment Record:

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

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.

Conference / Workshops / Seminars Attended (2020/21)

Conferences Attended

- 27th Institution of Engineers Conference, 26-27 November 2020, Paradise Inn Lodge, Mombasa, Kenya (Virtual).
- 2020 Kenya Society of Environmental, Biological and Agricultural Engineers, 17 December 2020, University of Nairobi Towers, Nairobi, Kenya (Virtual).

Workshops and Trainings Attended

- Participant – Webinar on The Future of Kenya’s Agri-Industry organized by the Institution of Engineers of Kenya (IEK), 27 May 2021 (Virtual).
- Panelist during interview of Agricultural and Biosystems Engineers for Corporate Membership under IEK, 17 May 2021 (Virtual).
- Facilitator – Training of Trainers Workshop organized by Institution of Engineers of Kenya (IEK), 29 April 2021 (Virtual).
- Participant – Training on Environmental and Social Impact Assessment for Infrastructure Projects organized by Institution of Engineers of Kenya (IEK), 16 April 2021 (Virtual).
- Participant – Training on Corporate Governance: Towards Next Level Board Leadership Practices, 30 – 31 March 2021 and 6-7 April 2021 by the Leadership Group Consultants. Organized by Kenya Roads Board.
- Panelist during interview of Agricultural and Biosystems Engineers for registration under EBK, 24 June 2020, EBK Headquarters, Nairobi, Kenya.
- Resource Person at the IEK Seminar on Professional Examination Tools Presentation for Agricultural and Biosystems Engineers, 4 September 2020 at IEK Headquarters, Nairobi, Kenya (Virtual).
- Resource Person at PIP Seminar for *Preparation for Professional Registration* organized by EBK to support registration by Lecturers from various universities sponsored by Higher Education Partnerships in Sub-Saharan Africa (HEPSSA) Programme (administered by Technical University of Kenya), 1-2 October 2020, Maanzoni Lodge, Machakos, Kenya.
- Resource Person at PIP Seminar for *Preparation for Professional Registration* organized by EBK to support registration by Lecturers from various universities sponsored by Higher Education Partnerships in Sub-Saharan Africa (HEPSSA) Programme (administered by Technical University of Kenya), 17 October, Crowne Plaza, Nairobi, Kenya.
- Resource Person at the EBK Seminar on Professional Examination Tools Presentation for Agricultural and Biosystems Engineers, 28 – 30 October 2020, Nairobi Kenya (Virtual).

Community Service and Other Engagements

- Director, Kenya Roads Board on behalf of Institution of Engineers of Kenya).
- Panelist - Engineers Board of Kenya, EBK and Institution of Engineers of Kenya (Agricultural Engineering Panel –Interviews of engineers for registration as Professional and Consulting Engineers).

Professional Experience / Practice

2017 to date	Lecturer, Kenyatta University / Department of Agriculture and Biosystems Engineering.
2021 to date	Irrigation / Agricultural Engineer – Consultancy Services for Institutional Assessment for Operation and Maintenance of the Thwake Multipurpose Water Development Program, Kitui and Makueni Counties, Kenya.
2020 to date	Team Leader / Irrigation Engineer – Consultancy Services for Detailed Design and Construction Supervision of Cooperative Owned Smallholder Irrigation Infrastructure within Mount Kenya Region (Lot 3 Projects), Embu, Kenya.
2019/20	Project Director / Irrigation Engineer – Consultancy Services for Pipe Wayleave Acquisition Plan for Rwabura Irrigation Development Project Phase I, Kiambu County, Kenya.
2019/20	Irrigation Engineer – Environmental Impact Assessment for the Proposed Irrigation Projects and Desilting & Excavation of Small Earth dams in Western Region, National Irrigation Authority, Kenya, Kenya.
2018-20	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.
2017/18	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.
