
CURRICULUM VITAE

NAME OF CURRENT EMPLOYER: ELECTRICITY REGULATORY AUTHORITY
NAME: SEMITALA, Norbert **BORN:** 21 January, 1967
PROFESSION: Electrical Engineer/Power Systems Engineer
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NATIONALITY: Ugandan

MEMBERSHIPS:

Registered Engineer No. 534, Uganda Engineers Registration Board.
Member , Uganda Institution of Professional Engineers (UIPE)
Member of the IEEE Power Engineering Society, USA.
Member of the Institution of the Electrical and Electronic Engineers Inc. (IEEE), USA

EDUCATION:

1992	Bsc. Electrical Engineering (Hons), Makerere University, Kampala
1996	Post Graduate Diploma in Electrical Power Distribution Systems, Norwegian University of Science and Technology, NTNU, University of Trondheim.
2001	MSc.Eng. Electrical Engineering, Makerere University, Kampala (<i>Research thesis:</i> Computer Based Economic Power Dispatch in a liberalized Power market- “A case for Uganda”)
2006	MBA (Finance), Makerere University, Kampala (<i>Research Topic:</i> Power Sector reforms in Uganda – Implications for the Poor)

KEY QUALIFICATIONS:

Norbert is an Electrical Engineer by profession with specific bias in Power systems, holder of a **BSc. Eng (honours)**, an **MSc. Eng** degree in **Electrical Engineering** and an **MBA (Finance) degree**, all from *Makerere University, Kampala*.

He in addition, holds a **Postgraduate Diploma in Electric Power Distribution Systems** from the *Norwegian University of Science and Technology (NTNU), Trondheim, Norway*.

With over 17 years working experience, his working career began at Uganda Electricity Board (UEB) where he served in various capacities ranging from a Graduate Trainee Electrical Engineer in 1991 rising gradually through the various ranks to the senior post of Principal Projects Engineer, in 2001, a post he held until April, 2002 when he left UEB to take on a new assignment with an international engineering consultancy firm, *Norplan AS Consulting Engineers and Planners* and worked in **Oslo, Norway** as Senior Consultant, and returned to Uganda in March 2003.

On return to Uganda, he was employed at the NORPLAN (U) Ltd, Consulting Engineers and Planners office in Kampala, doubling both as Senior Consultant Engineer and as the Manager of the Power and Renewable Energy Division, and finally as Quality Assurance Manager, handling various tasks as either Project Manager and/or Senior Consultant for the different Energy sector related developments as detailed in his CV.

In the over ten or so years spent at an electric utility, then UEB , he acquired significant experience in power system planning, operations, analysis and design, project planning, co-ordination and supervision, project and contract management for power transmission and distribution projects (132 kV – 0.4 kV), having been in the planning and projects divisions and also having worked closely with consultants as either counterpart and/or co-ordinator on various project assignments at the utility.

He has also been extensively involved, at various stages of his carrier, in the process of procurement of engineering equipment; contractors and consultancy services based on both Local and/or International Competitive Bidding procurement procedures.

He has since effective from September, 2007 taken on a new senior management appointment, with the Electricity Regulatory Authority, as the Director, Technical Regulation, and as such responsible for providing regulatory oversight of all technical aspects of the regulated power utilities and entities in the electricity sector.

OTHER TRAINING/CONFERENCES:

April 2010	International Conference Centre, Abuja, Nigeria.	Presented a paper (Addressing Africa's Infrastructure Development Challenges: What Regulators in Africa and elsewhere are doing) at a three day conference on the theme Global Economic Crisis: Implications and challenges for utility regulation in Africa.
Mar 2010	Mombasa Serena Beach Hotel, Mombasa, Kenya.	Five day (March 22 nd -26 th) Corporate Governance training for Company Directors.
Dec 2009	GTIEA/EATTA/UNEP training workshop on Small Hydropower project (SHP) finance for Bankers and Insurance Companies.	Participated as resource person on aspects of policy and regulatory issues in SHP held in Nairobi, Kenya.
July 2009	IP3 (Institute of Public Private Partnerships), Arlington, Virginia, USA	Training on Regulating Quality of Service: Planning, Compliance Monitoring and Enforcement for PPP Projects.
April 2009	The Power & Electricity World Africa Conference	Sandton Convention Centre, Johannesburg, South Africa

Nov 2008	IP3 (Institute of Public Private Partnerships), Washington DC, USA	Training on Independent Monitoring and Evaluation of Development Projects.
Sept 2008	The East African Power Industry Convention 2008	Grand Regency Hotel, Nairobi Kenya
July 2008	GTIEA/EATTA/UNEP study tour on hydropower development conducted in Sri Lanka and Nepal.	Study tour to appraise Small Hydropower developments.
March 2008	Applied Energy Solutions, Sandton, South Africa	Training on Power Systems Simulation. Course is accredited to South Africa Institute of Electrical & Electronic Engineers (Code :SAIEE – 0072V)
Jan 2008	PURC (Public Utilities Research Centre), University of Florida, Gainesville, Florida, USA	Training on Public Utility Regulation and Strategy
Sept 2007	CREEC (Centre for Research and Energy Conservation),Makerere University,Kampala	Training on Pico Hydro design and Implementation
March 2007	CECORE (Centre for Conflict Resolution)/SAFERWORLD training Imperial Resort Beach Hotel, Entebbe	Training on conflict-sensitive approaches to development
June 2004	International Center for hydropower (ICH), Trondheim, Norway.	Hydropower Development and Management in the context of integrated water resources Management
Aug 2001,	Mauritius Sugar Authority/AFREPREN, Quatres Bornes, Mauritius	Energy training Course on Power Sector Reforms- Implications for the Co-generation industry
Dec, 2000	Fintech (Uganda) Ltd	Training on Microsoft packages, MS-Word, Excel, Access, PowerPoint and MS Projects.
Aug - Sept 2000	International Center for hydropower (ICH), Trondheim, Norway.	Hydropower and the Environment
May 2000,	StatKraft SF and Statnett SF, Oslo Norway.	Economic Power Dispatch in liberalized / deregulated Power Markets.
July, 1998	Electricité de France (EDF), Paris & Rene', France	Load Forecasting Techniques.
Aug –Oct, 1997	SwedPower, Stockholm, Sweden	Advanced training in Electricity Distribution Management
Aug, 1994,	Management Training and Advisory Centre (MTAC), Kampala, Uganda	Project Planning and Implementation

Mar 94 – Sept 94, Makerere University, Kampala, Uganda

Post graduate training in Project Planning and Management (evening course).

EMPLOYMENT RECORD:

Sep, 07 – To date **ELECTRICITY REGULATORY AUTHORITY**
Director, Technical Regulation

Mar, 06 – Aug, 07 **NORPLAN (U) LTD, Consulting Engineers and Planners, Kampala, Uganda**
Quality Assurance Manager / Senior Consultant Engineer

Mar, 03 – Feb, 06 **NORPLAN (U) LTD, Consulting Engineers and Planners, Kampala, Uganda**
Manager, Power and Renewable Energy Division / Senior Consultant Engineer

May, 02 – Mar, 03 **NORPLAN AS, Consulting Engineers and Planners, Oslo, Norway**
Senior Consultant Engineer, Power and Renewable Energy Division.

1991 – April 2002 **UGANDA ELECTRICITY BOARD (UEB), Kampala, Uganda**

Nov, 01 – Apr, 02 *Principal Projects Engineer*

Mar, 99 – Nov, 01 *Senior Projects Engineer*

Jan, 94 – Mar, 99 *Planning Engineer (Standards & Specifications)*

Oct, 91 – Dec, 93 *Graduate Trainee Electrical Engineer.*

EXPERIENCE/NOTABLE ASSIGNMENTS:

Sept, 07 – To date **ELECTRICITY REGULATORY AUTHORITY**
Director, Technical Regulation

Primary Duties

- *Provision of technical direction and advice on electricity capacity planning, quality of service requirements in the electricity sector*
- *Support to the development and implementation of policies and strategies for the regulation of electricity generation, transmission and distribution.*
- *Initiate, develop and maintain policies, strategies and standards for quality of supply.*
- *Identify, formulate and implement criteria for licenses for electricity producers, transmitter's distributors and retailers.*
- *Support with the assessment of licensing criteria and license application reviews.*
- *Coordinate performance monitoring, benchmarking and license withdraw recommendations to the Authority.*

- *Develop Demand Side Management (DSM) data and performance benchmarks on production efficiency, customer and environment impact and capital cost technologies.*
- *Supervise evaluation of new projects application including system simulation*
- *Technical support to the ERA dispute resolution processes.*

Mar 2003 – Date

NORPLAN (U) LTD, Consulting Engineers and Planners, Kampala, Uganda

July - August 2007

Independent Consultant (Short term assignment); Engaged by NELSAP – CU (Nile Equatorial Lakes Subsidiary Action Program-Co-ordination Unit), under the Nile Basin Initiative to formulate transboundary projects for scaling up of Power Trade and Investment activities, specifically visiting and covering four countries of the Nile Basin namely Rwanda, Uganda, Kenya and Sudan.

Oct 2006

Team Leader/Electrical Engineer; Consultancy Services for the Feasibility on the Supplementation of Grid Power with Off Grid Private Generation Capacity. Client is Electricity Regulatory Authority and financed by Privatisation Unit, Ministry of Finance Planning and Economic Development.

May – July 2005

Local Counterpart Consultant to Norplan As of Norway in the development of a financial forecasting model for UETCL (Uganda Electricity Transmission Company Ltd).

Jan 2005

Local Counterpart Transmission Engineer to Norplan As of Norway for the feasibility study for the development of four mini hydropower sites of Bugoye, Waki, Muzizi and Nengo Bridge. Client is SN-Power of Norway.

Jun 2005

Electro-Mechanical Engineer responsible for the design of the power system for the sewage pumping station in the Makerere – Katanga – Mulago area. Client is National Water and Sewerage Co-operation.

May 2005-Nov 2006

Project Manager, Kabale Rural Electrification Project – Extension of Phase I, funded by Sida. Client is Ministry of Energy and Mineral Development. (Project Sum USD 986,152)

Jun 04-Mar, 06

Local Counterpart Substation Engineer for the Feasibility Study for Kawanda-Masaka 220 kV line for the Norplan As/Statnett SF JV of Norway. Client is UETCL.

2004

Team Leader/ Substation Engineer, on the Economic and Financial Feasibility Study for the Proposed Namanve 132/33 kV, 3 x 40 MVA substation under the World Bank funded Power IV Project Client is UETCL.

2004

Contributed in the supervision of Electrical Installation works for a new 4000 square metre, three storeyed building complex for the Department of Food Science & Technology, Makerere University. (Contract Sum: UGX 3.88 Billion).

2004

Electrical Consultant in the design and supervision of Electrical Installation works for Arapai Agricultural College (work involves rehabilitation of eight existing buildings and construction of up to 15 new buildings of which some are double storeyed). (Phase I completed-Contract Sum UGX: 2.95 Billion). Client is Ministry of Education and Sports.

2006

Electrical Consultant in the Electro-mechanical design of the Proposed Relocation of Shimoni Core PTC and Shimoni Demonstration Primary School complex

(work involves construction of a number of buildings ranging from 4-level to 1-level, and includes accommodation facilities, classroom blocks, laboratories, libraries, administration and recreational facilities among others). *(Project Sum UGX: 23 Billion). Client is Ministry of Education and Sports*

2003 *Nominated representative to witness Factory Acceptance and type tests on behalf of UETCL for 132/11kV, 2 x 20 MVA Power Transformers for delivery to UETCL, Mutundwe Substation, at ABB PowerTech factory in Pretoria West, in South Africa between 5/05/03 to 13/05/03, 7/07/03 to 11/07/03, 31/08/03 to 07/09/03, 15/10/03 to 19/10/03 and 8/12/03 to 12/12/03 respectively. (Total value of Transformers is NOK 5,533,106 - equivalent to USD 922,184). Client is UETCL*

2003-2005 *Resident Engineer/Project Manager for Norplan As of Norway, Supervised the implementation of the NORAD funded project for Phase III -Extension and refurbishment of UEB 132/33/11 kV for the Substations of Nkenda, Nkonge and Opuyo - Contract 1, and for Lugogo and Mutundwe - Contract 2.*

Contract Sum: Contract 1: 39,265,468 NOK (approx. USD 5.61 Million)

Contract Sum: Contract 2: 12,662,104 NOK (approx. USD 1.81 Million)

Consultancy services: 6,006,312 NOK (approx. USD 0.86 Million)

Client is UETCL

2004 *Substation Engineer on the assignment to carry out field investigations and subsequently prepared a report for UETCL on the "Feasibility study for the Economic and Financial Analysis for the Rehabilitation and Extension of the 132/33 kV substations of Mbarara North, Masaka West, Lira and Lugaz", under Nordic Development Fund (NDF) financing. Client is UETCL*

2002-2005 *Energy Specialist on the consultant's team for the "Monitoring and Evaluation" component of the ERT (Energy for Rural Transformation) World Bank funded project for the Ministry of Health. Client is Ministry of Health.*

2003-2007 *Procurement Specialist/Alternate Project Manager on the consultant's team for the "Implementation" water-component of The ERT (Energy for Rural Transformation) World Bank funded project for the Ministry of Water, Lands and Environment, with the Directorate of Water Development as implementing agency. Project involves design and supervision for the installation and commissioning of over 700 solar panels of 120 Wp each. (Project Budget -approximately USD 4.2 Million). Client is the Directorate of Water Development.*

May 02 –Mar 2003 Norplan International Consulting Engineers Oslo, Norway.

- Preparation of Evaluation Report for the NORAD funded Extension and Refurbishment of 132/33/11kV Nkenda, Nkonge and Opuyo Substations in Uganda. (Contract 1- Phase III) - *Approximately 40 million NOK (approx.USD 6.5 Million). Client is UEB.*
- Preparation of various winning Technical Proposals, among which include:
 - (i) Rural Electrification Project (HV Substation and Distribution lines) for Ethiopia Electric Power Corporation (EEPCO) in association with Nor Consult As of Norway.

- (ii) Tanzania's Rural Electrification Master Plan Study in joint venture with ELETROWATT-EKONO of Finland and in association with COWI AS of Denmark.

- Various Expressions of Interest submitted to the following Clients, Electricite de Laos (Laos), UEB, UETCL and EEPKO (Ethiopia).

Mar, 99 – Apr, 02 Projects Co-ordination Division, Uganda Electricity Board (UEB)

1999-2002 Urban Power Rehabilitation Project (*approx. 25 million USD*), was responsible for co-ordination of all project activities (including the turnkey construction of 140 km, 33 kV Apac Masindi line) on the side of client. *ADB Funded*

Jan 1999-Sept.2000 Jica IV Rural Electrification Project (*approx.12 million USD*), JICA Funded which involved Installation of 4 x 33/11kV substations and construction of 4 lines (Njeru-Kayunga-Baale, Budondo-Mbulamuti, Hoima-Munteme, Wabigalo-Migyera) approximately 200 km in total of 33kV (i.e. 2 components, substation and line constructions).
Particularly, I was responsible for contract management, supervision and co-ordination of the line construction component.

1997 - 2002 *Owen Falls Extension Project (OFE)- POWER III, Multilateral financing (NORAD, SIDA, WORLD BANK, NDF, ADB, UEB)*. This involved extension of three 132/33/11 kV substations of Kampala North, Lugogo and Mutundwe, Supply of Air Break Switches and Fused Disconnectors, Installation of a 33 and 11 kV distribution fault finding system, supply of two 40 MVA, 132/33 kV and 132/11 kV Transformers, relay co-ordination and planning system. *I was involved in planning and procurement of Consultants and equipment.*

Jan, 93 -Mar 99 Planning Department, Uganda Electricity Board (UEB)

June – Oct. 98 *Counterpart Planning Engineer* for Load forecast – Uganda's Load Forecast and Hydrology of the Nile River Optimisation Study conducted by Electricité de France (EDF).

1993 Participated in the Distribution Loss Reduction Planning Study as *Counterpart Engineer* for the urban towns of Kampala, Jinja and Tororo conducted by IVO Consulting Engineers of Finland.

Oct, 91 – Dec, 93 Graduate Trainee Electrical Engineer, Uganda Electricity Board

1991-1992 Planning of power system by carrying out computer aided load flow analyses using PSSE software, in order to initiate system improvements.

LANGUAGES:

	Speaking	Reading	Writing
Luganda	Mother tongue		
English	Excellent	Excellent	Excellent
Norwegian	Fair	Fair	Fair
Swahili	Fair	Fair	Fair

CERTIFICATION:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

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(Signature)

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Date