Paul Bogere

Name	Paul BOGERE
Date of Birth:	18th March 1983
Place of Birth:	Mukono, Uganda
Nationality:	Ugandan
Areas of Expertise:	Broadcasting - Television and Radio, Electromagnetics, Spectrum Management
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Academic Qualifications

- 2011 MSc in Electrical Engineering, Makerere University, Uganda
- 2007 BTTE in Electrical Engineering (First class), Kyambogo University, Uganda

Working Experience

Nov 2012 - Present | Assistant Lecturer | Makerere University, Uganda

I have worked as an Assistant Lecturer in the Department of Electrical and Computer Engineering, School of Engineering, College of Engineering, Design, Art and Technology of Makerere University since November 2012. The courses I have taught since my promotion are summarized in the table hereunder:

Academic Year	Semester	Course Code	Course name	Study Program
2013/14	II	ELE 1201	Electricity and Magnetism	B Sc. CE/1
2013/14	I	ELE2112	Electromagnetics	B Sc. BE/2
				B Sc. EE/2
				B Sc. TE/2
		TEL 4114	Television and Video Engineering	B Sc. EE/4
				B Sc. TE/4

October 2012 | Consultant/Visiting Lecturer | Polytechnic of Namibia

I was invited as a Consultant/Visiting Lecturer to the Department of Electrical Engineering, School of Engineering, Polytechnic of Namibia for the month of October 2012. As a Visiting Lecture, I executed the following duties:

1. Gave lectures to fourth year B Eng degree students in the Telecommunication Switching and Network Systems course,
2. Reviewed the B Eng curriculum.
3. Explored possibilities of joint research, and possible collaboration between Makerere University and the Polytechnic of Namibia. To this effect, I wrote a concept paper.

Jul 2007 - Oct 2012 | Teaching Assistant | Makerere University, Uganda

As a Teaching Assistant in the Department of Electrical and Computer Engineering, School of Engineering, College of Engineering, Design, Art and Technology of Makerere University, I have taught a number of courses as detailed hereunder:

Academic Year	Semester	Course Code	Course name	Study Program
2012/13	I	ELE2112	Electromagnetics	B Sc. BE/2 B Sc. EE/2 B Sc. TE/2
2011/12	II	TEL 3205	Television Systems	B Sc. TE/3
2011/12	I	ELE 2103	Electromagnetics	B Sc. EE/2 B Sc. TE/2
		ELE 7102	Experimental Methods and Instrumentation	M Sc. EE/1
2010/11	I	ELE 2103	Electromagnetics	B Sc. EE/2 B Sc. TE/2
	II	ELE 3203	Power Electronics	B Sc. EE/3
	II	ELE 3205	Television Systems	B Sc. TE/3
2009/10	I	ELE2103	Electromagnetics	B Sc. EE/2 B Sc. TE/2

	II	ELE 3205	Television Systems	B Sc. TE/3
	II	EMT 1202	Information and Communication Technology II	B Sc. TE/1
2008/09	I	ELE 2103	Electromagnetics	B Sc. EE/2 B Sc. TE/2
	II	ELE 3203	Power Electronics	B Sc. EE/3
	II	EMT 1202	Information and Communication Technology II	B Sc. TE/1
2007/08	I	ELE 2103	Electromagnetics	B Sc. EE/2 B Sc. TE/2
	II	ELE 3203	Power Electronics	B Sc. EE/3

2006 - 2007 |Part-time Lecturer | Kampala Polytechnic Mengo, Uganda

From 30h September, 2006, to 7th November, 2007, I taught at Kampala Polytechnic Mengo in the Electrical Section. My responsibilities included; teaching, setting, marking and evaluating course works, tests and examinations, plus maintaining and keeping a record of learners' performance.

Aug - Nov, 2006 | Instructor | Nakawa Vocational Training Institute

As a Student Instructor at the institute's Electrical Engineering section, I performed a number of duties and responsibilities, including but not limited to: Preparing Schemes of work, lesson plans and teaching aids, Conducting classroom lessons in IEE Regulations course to second year Electrical Installation and Fitting students, Setting written and Practical exercises for learners, Marking and evaluating written and Practical exercises, Maintaining and Keeping a record of learners' performance in written and practical exercises.

Sept - Nov, 2005 | Lecturer | UTC Kichwamba, Uganda

During my first degree, I underwent teaching training as a Student Lecturer at the Uganda Technical College Kichwamba's Electrical Engineering Department. During this period I taught Electronics Course to second year students who were pursuing an Ordinary Diploma in Electrical Engineering.

Other Working Experience

Feb - 2008 - Jul - 2012 | Assistant Engineer | Uganda Broadcasting Corporation

From February 1st, 2008 to June 30th, 2012, I worked as an Assistant Engineer for Uganda Broadcasting Corporation (UBC). I performed a number of duties including: leading the OB team; operation of studio, transmitter, microwave links, satellite uplink and downlink equipment; installation and maintenance of broadcast equipment, writing technical reports, plus any other duties assigned from time to time by my immediate Supervisor.

Jul - Aug, 2006 | Trainee - Internship | Kasese Cobalt Company Limited

I trained at Kasese Cobalt Company Limited's Electrical and Instrumentation Engineering Department under the supervision of competent supervisors. During this period I acquired more knowledge and skills in Management, Carrying out routine checks of instruments, Calibrating instruments, servicing instruments and resolving breakdowns of instruments among others.

Jun - Sept, 2005 | Trainee - Internship | Kyambogo University, Uganda

From 25th June to 24th September, 2005, I did my second Industrial Training at the Kyambogo University's Faculty of Engineering, in the Department of Electrical and Electronic Engineering. During these three months, I acquired more knowledge and skills in Installation of Internet and Networking Topologies.

Jul - Sept, 2004 and Jul - Sept, 2003 | Trainee - Internship | KSW (1985)| Ltd

I trained for six months as a Student Engineer at Kakira Sugar Works (1985) Limited from 1st July to 30fh September, 2004 and from 1st July to 30fh September, 2003. This training was carried out in the Factory Department, Electrical Engineering Section. While at Kakira Sugar Works (1985) Limited, I was supervised by competent supervisors and this enabled me to acquire knowledge and skills in the fields of Industrial organization and Management, Maintenance of domestic and industrial equipment, Power generation, transmission and distribution, Telephone systems among others.

Research Experience

April 2013 – Present | Provisional PhD Student | Makerere University

I am currently working on my proposal for full admission to a study program leading to the award of a Doctorate of Philosophy of Makerere University.

October 2008 - October 2009 | M Sc. Student | Makerere University

For my M Sc. degree dissertation, in conjunction with Community Wireless Resource Centre, I researched on Dynamic Spectrum Allocation in Multi-user Wireless Networks through Opportunistic Spectrum Sensing Techniques.

Supervision of Students' Research

2012/2013	I supervised final year students' projects, at undergraduate level, with the following titles: 1. Design and Implementation of a Home Automatic and Security Control System that uses Voice over the GSM Network. Supervised to completion.

	2. Channel Estimation in Mobile Wireless Systems. Supervised to completion. 3. Design of a Power Distribution Control System Using GSM 4. Design of an Affordable and Effective Burglar Home Security System. Co-supervised to completion 5. Performance Analysis of Non-Directional Beacon (NDB) Transmitters. Co-supervised to completion. 6. Challenges in Analog to Digital Migration.
2011/2012	I supervised undergraduate students' research with the under-mentioned titles: 1. Design of a Computerized Remote Management System for a Digital Terrestrial TV Network - to completion. 2. Design of a GSM Based System for Phone Contacts Backup - to completion. 3. Design and Implementation of a Music Ring Back Tone Prototype for Wireless and Wire line Operators: The Case of Warid Telecom Uganda - to completion. 4. Microcontroller Burglar Alarm System via GSM Network - to completion.
2010/2011	Co-Supervised undergraduate students' research entitled Design of an intelligent traffic light system - to completion. 2010/2011 Co-Supervised an undergraduate student's research entitled The Feasibility of Live TV outside Broadcasting in Uganda Using Internet Protocol - to completion.

Other Responsibilities

- From July 2011 to Present | Industrial Training Coordinator - Department of Electrical and Computer Engineering

Other Academic Activities

2013	Presented details of modules in the National Diploma in Electrical Engineering (NDEE) at a stakeholders' consultative workshop on curriculum materials for the national diploma programmes in engineering offered by Uganda technical colleges. The workshop was organized by the National Curriculum Development Centre (NCDC) and held at NCDC conference hall between Tuesday 16th and Wednesday 17th July, 2013. The consultative workshop was aimed at getting feedback from stakeholders, regarding the material/content of a student-centered and competence-based curriculum for NDEE.
2013	Participated in the review of a student-centered and competence-based curriculum for NDEE of Uganda Technical Colleges. My participation followed an invitation by the NCDC and I offered my expert advice on the content of fundamental modules like: Electrical Engineering Science, Electrical Installation Technology, Electrical Power, Electrical Engineering Drawing, Fundamentals of Communication Systems, Electronics, Measurement,

	Instrumentation and Control, and; electrical real life projects for every semester.
2012	The aim of the curriculum was to produce a force of "graduates" which is up to-date with the current labour market and relevant to the industry and world of works. The emphasis, therefore; was on practical teaching, projects and acquisition of skills by the student - in line with the BTVET strategic plan *"Skilling Uganda*"
2012	Reviewer: Second National Conference on Communications
2011	Reviewer: First National Conference on Communications
2011	Published a paper *"Dynamic Spectrum Allocation in Multi-User Wireless Networks ISBN: 978-1-905824-26-7 "* in the IEEE Xplore. The said paper was presented in the ISA-Africa (Regional Impact of Information Society Technologies in Africa) 2011 conference that took place in Gaborone Botswana between 11th and 13th May, 2011. The IST-Africa 2011 conference focused on the Role of ICT for Africa's Development and specifically on Applied ICT research topics addressing major societal and economic challenges, which is part of the European Commission's Information Communications Technologies (ICT) Theme of FP7. The Conference Programme combines strategic keynote presentations, technical and policy papers, case studies, workshops, an exhibition and social activities.
2010	Authored a paper, *Dynamic Spectrum Allocation in Multi-User Wireless Networks,* which was presented at the Uganda Institution of Professional Engineers' National Technology Conference - May 2010.

Professional Membership

- Graduate Engineer (Registered by the Uganda Institution of Professional Engineers - UIPE)
- Graduate Teacher (Registered by the Ministry of Education and Sports of Uganda)