

PERSONAL INFORMATION Emmanuel Mudaheranwa

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Sex: Male Date of birth: 1/01/1985 Nationality: Rwandese



Power systems and Technology Consultant

CAREER OBJECTIVE

To excel in my field through hard work, research, skills, and perseverance. To work in an organization where I can put my efforts for achieving organization as well as individual goals.

PRACTICAL EXPERIENCE AND EMPLOYMENT

February 2016-to-date: Lecturer at IPRC Karongi/ Rwanda Polytechnic

March 2016- March 2018: Part-time Lecturer of High Voltage Engineering and Power Electronics
At Distant Production University

September 2015-February2016: Part-time lecturer of “Signal, systems, and transform” and “Embedded Systems” courses at Muhabura Integrated Polytechnic College, Rwanda

September 2015-February2016: Part-time lecturer of “Industrial Automation” and “Embedded Systems” courses at Universite Libre de Kigali (ULK)

June 2014 – June 2015: MSc. Thesis title: **“Programmable Logic Controller (PLC) Based Pressure Behaviors and Biogas Plant’s Parameters Automatic Control”**
Research Group: Instrumentation and Automation, Sharda university-India.

Supervisor: Prof. Dr. H.K. VERMA and Mrs Ranjeeta Singh
Thesis defence: A⁺

January2011–September2013: Teaching “Automation in Pneumatics and Hydraulics” and “Electrical workshop” courses at Indangaburezi College of education

January - September 2011: BSc. Memoir title: *“New approach on power system faults analysis and Protection”*, National University of Rwanda (NUR).

Supervisor: Mr.Victor Hakuzwumuremyi
Grade of Memoir: 83.25%

September 2005 – December 2006: Teaching Mathematics and Physics courses for Advanced & Ordinary level students (i.e., High school) in Ecole Secondaire de Kidaho, Rwanda.

EDUCATION BACKGROUND

October 2018 – to date: Cardiff University (UK) PhD Engineering (Advanced Analysis Load Management and Energy Conservation in Power System)

October 2013 – June 2015: Sharda University (India) Masters of Technology in **Electrical Engineering with Specialization in Power System Engineering**

January 2008 – October 2012: Department of Electrical and Electronics, Faculty Applied Science, Former National University of Rwanda, NUR - Bachelor of Science with honours in Electrical Engineering.

January – September 2007: National University of Rwanda - School of Practice of Modern Languages (EPLM) - Language proficiency in English and French for academic use.

September 2003 – September 2005: Government High School (Ecole Secondaire de Kidaho, Rwanda), Advanced Level (Mathematics and Physics).

September 2000 – September 2002: Government Technical School (E.T.O Gatumba), Advanced level Certificate (Electricity A3)

Distinctions and scholarship awards

- **August 2017-To date:** Commonwealth Scholarship Commission Grant for PhD Course in Power System Engineering
- **October 2013 – September 2015:** Rwanda Education Board grant for master's course in Electrical and Electronics Engineering (granted in term of fees and monthly allowances).
- **2007/2008, 2008/2009, 2009/2010, 2010/2011 and 2011/2012 academic years:** Rwanda Education Board grant for studying undergraduate at National University of Rwanda.

Mother tongue(s)

Kinyarwanda

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2
German	A1	A1	A1	A1	A1
Hindi	A1	A1	A1	A1	A1
Swahili	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Adequate communication skills gained as a lecturer as well as during my stay in master's program in India.

Trainings and Workshops/

- 2019: UTBM a one week training on Microgrid design and Management , BELFORT FRANCE
- 2018: Commonwealth Scholarship commission a 3 day training for development on How to maximize your impact for development
- 2017: UR DRIPGS a 2 days training on use of web of Science Resources, KIGALI RWANDA
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- 2017 : ACE-ESD a 2 days IEEE Training of Photovoltaic System, KIGALI RWANDA
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- **2017**: University of Rwanda a 2 day workshop on e-resource and Information literacy, KIGALI RWANDA
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- 2017: IPRCWEST a 2 weeks training of Smart Metering, KARONGI RWANDA
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- **2015**: JRM solution Certificate on PLC & SCADA, Uttar Pradesh INDIA
- **2013**: TEVSA with German Cooperation Certificate on Pneumatic and Electro-Pneumatic Automation , KIGALI RWANDA
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- **2013**: TEVSA with German Cooperation Certificate on Electricity (Motor and Transformer Rewinding) , KIGALI RWANDA
- **2012**: TEVSA with German Cooperation Certificate on Electricity (Safety instruction, Safe environment, Domestic installation, Circuit breaker, Motor starting sequence),KIGALI RWANDA
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- **2006**: 2-month attendance of solidarity camp at Nkumba, Northern Province, Rwanda.

Publications and Conference

August 2018: New Approach on Solar Water Heater Energy Smart Metering System Using Adafruit Feather 32u4FONA.(A conference paper published in IEEE Xplorer)

2019: Dynamic Modelling of Energy Consumption patter of a typical Nigerian average urban and rural household for microgrid PV design. (Accepted for oral presentation at IEEE PES Innovative Smart Grid Technologies Europe

Development of PLC based monitoring and control of pressure in Biogas Power Plant Digester (Accepted for oral presentation at icABCD2019)

Computer Skills

Microsoft Office word, PowerPoint, excel, Adobe reader, ArchiCAD, MATLAB, PLC&SCADA, LogoSoft, good internet browsing & research skills.

Entertainment (music and Football games).

Referees

Prof.R.K.Jatley
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I declare that the above information is true of my knowledge and brief



Emmanuel MUDAHERANWA