



# Curriculum Vitae

## PERSONAL INFORMATION

Robert Kakebe Sekajja  
Kanyanya, Kampala, Uganda  
+2560774100039/+2560703827951  
[ksr.kakebe@yahoo.com](mailto:ksr.kakebe@yahoo.com)/[ksr.kakebe@gmail.com](mailto:ksr.kakebe@gmail.com)  
Nationality: Uganda  
Sex: Male | Date of Birth: 15<sup>th</sup> October 1983

## WORK EXPERIENCE

### 2006-Present Parttime Lecturer

Kyambogo University

Department of Mechanical and Production Engineering

- Teaching, Supervising and Evaluating students Courseworks and Exams and Projects

#### **Subjects/Courses Taught**

1. Power Plants Engineering
2. Engine Design and Theory
3. Automotive Electronics
4. Automotive Electrical & Electronics Systems
5. Auto-tractor Technology
6. Vehicle Technology
7. Materials Technology
8. Material Science
9. Engine Technology

- Timetable Incharge
- IGU coordinator

### 2010-Present Assistant Lecturer

Kabale University

Department of Mechanical Engineering

- Teaching, Supervising and Evaluating students Courseworks and Exams and Projects

#### **Subjects/Courses Taught**

1. Mechanic of Fluids
2. Mechanics of Materials
3. Fluid Power systems
4. Engine Technology
5. Materials Technology
6. Material Science
7. Welding and Fabrication Technology
8. Production Technology
9. Foundry Technology
10. Engineering Materials

- Timetable Incharge
- Recess Term Coordinator

## EDUCATION AND TRAINING

- 2019-Date PhD Candidate
- 2009-2015 M Sc. Renewable Energy  
Makerere University, Kampala Uganda
- 2002-2006 B.Eng. Automotive and Power Engineering (B Eng APE)  
Kyambogo University, Kampala Uganda
- 2000-2001 Uganda Advanced Certificate of Education (UACE)  
Kololo Senior Secondary School, Kampala Uganda
- 1996-1999 Uganda Certificate of Education (UCE)  
Kasana Senior Secondary School, Luweero Uganda
- 1987-1995 Primary Leaving Examination (PLE)  
Luweero Parent School, Luweero Uganda

## PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Luganda

Other language(s)

English  
Swahili

LISTENING		SPEAKING		WRITING
Listening	Reading	Spoken Interaction	Spoken Production	
C1	C1	C2	C1	C2
A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills and competences

*Intellectual Skills:* I have taught students from lower secondary schools to university levels in the science based fields for more than 18 years.

*Social skills:* I participated in door to door preaching and teaching to masses in church of bible based information to people of various races and background.

Organisational skills and competences

While with Kyambogo university, I organised a number of exhibition for the faculty of Engineering which have always turned out to successful.

I have managed the allocation of teaching load and timetabling for the departments of mechanical engineering for both Kabale University and Kyambogo University. Though the work is relatively challenging, I have always made it a success

I have represented the department at various levels of the kabale university during presentation of student's examination results.

I organised the commit which reviewed academic programmes in the department mechanical in Kyambogo university in 2014, and in Kabale university in 2013

Technical skills and competences

- |    |   |      |                         |
|----|---|------|-------------------------|
| a) | Review of academic programmes                                       | 2008 | Kyambogo University     |
| b) | Fabrication of Vehicle Bodies & Tractor Repair<br>(Mersey Ferguson) | 2005 | Engineering Solutions   |
| c) | Fabrication, Foundry & Machining works                              | 2004 | KYU Mechanical Workshop |

- d) Repair and servicing of Buses workshop 2003 Horizon Coaches Mechanic
- e) Fabrication of steel Products 2010-2015 Personal Workshop
- f) Supervision of Group Project for B. Eng. APE year III students 2008-2015 Kyambogo University
- g) Attending of the stakeholders workshop on Programme offered at Kyambogo University Faculty of Engineering. 2008 Kampala
- h) Supervision of individual Projects for final year students on Bachelor of Engineering Programmes. Below are some of them.

	<b>Project Title</b>	<b>Programme</b>	<b>Period</b>
1.	Design of a water harvesting system for SAFCO students hostel	BEMME-IV	2007
2.	Design of an improved cooling system for Cummin generators at Highland natural mineral water	BEAPE-IV	2007
3.	Improvement of the spray booth at KYU motor vehicle section	BEAPE-IV	2007
4.	Design of an improved workshop layout for Kyeyune Motor Garage	BEAPE-IV	2007
5.	Evaluation of the suitability of water pumps on the Uganda market	BEAPE-IV	2007
6.	Evaluation of the application of Just in Time (JIT) production system at Ugachick Poultry breeders.	BEMME-IV	2008
7.	Design of a biogas digester for Mpoma Senior School	BEAPE-IV	2008
8.	Modification of a manual hydraulic floor jib crane to a motorized one for Kabale district local government	BEAPE-IV	2008
9.	Improving design conditions for Yusmart spray booth with quality and safety conditions	BEAPE-IV	2008
10.	The impact of autotronics on servicing and repairing in automotive workshops	BEAPE-IV	2008
11.	Improving the power supply of Ndejje Health centre	BEAPE-IV	2008
12.	Design of a piezo-electric generator for the DMPE office block	BEAPE-IV	2009
13.	Developing a solar PV system as an alternative power system for Dez junior academy	BEAPE-IV	2009
14.	Design of a cassava starch extraction machine for cottage industry	BEMME-IV	2009
15.	Design of a small scale Biodiesel plant that uses castor oil to generate Biodiesel	BEAPE-IV	2009

16	Re-organizing the central mechanical workshop of the ministry of works and transport, Kampala	BEMME-IV	2009
17	Design of a car wash and valeting system for Katuna Town Council	BEAPE-IV	2009
18	Design of a hydraulic gearbox support for use during Motorvehicle repair	BEAPE-IV	2009
19	Improving labour and materials utilization at super engineering works	BEAPE-IV	2009
20	Design of solar water pre-heater for SAFCO hostel	BEMME-IV	2009
21	Design of a commercial fresh maize roaster	BEMME-IV	2009
22	Design of a flexible human body thermoelectric generator	BEAPE-IV	2009
23	Design of a wind turbine as an alternative power source for Moroto Hospital	BEAPE-IV	2010
24	Improving the performance of a locally made battery charging system	BEMME-IV	2010
25	Design of an electric stationary car jack	BEAPE-IV	2010
26	Design of a solar PV power system for Stephen hostel	BEAPE-IV	2010
27	Design of a solar PV power system for DMPE teaching block	BEAPE-IV	2010
28	Design of a split type Air Conditioning system for Triple L Theatre	BEMME-IV	2010
29	Investigating the causes of compressed air losses at century bottling company limited Namanve	BEAPE-IV	2011
30	Investigating the causes of low electric power output in solar PV systems	BEAPE-IV	2011
31	Feasibility study of managing solid waste by direct combustion to generate steam for electricity production at Kiteezi landfill Kampala	BEMME-IV	2011
32	Design of a water storage system for Katungulu animal farm in Iyantonde district	BEEME-IV	2011
33	Design of a wind pico hydro power generator system	BEAPE-IV	2011
34	Assessing the viability of using a wind turbine as an alternative power source for Moroto Hospital	BEAPE-IV	2011
35	Design of an onion pulverizer	BEAPE-IV	2011
36	Design of a wind turbine power plant for Kangole girls senior school in Napak district	BEAPE-IV	2011
37	Improving the maintenance system of National water and Sewerage co-operation-Mbarara	BEMME-IV	2012

branch through application of global evaluation of manufacturing systems

38	Feasibility study of using rice husks to produce power at Tilda Uganda limited	BEMME-IV	2012
39	Design of coupling system for a wind mill powered treadle water pump	BEAPE-IV	2012
40	Assessment of the limitations of installation of solar PV systems in rural communities	BEMME-IV	2012
41	Design of an automatic self cleaning system for a solar PV module	BEAPE-IV	2012
42	Design of a conveyor system for steaming sugarcane for sugarcane juice extraction plant	BEMME-IV	2012
43	Design of a PLC control system for a chain conveyor at SAFCO beverages	BEAPE-IV	2012
44	Design of a wood fired firetube boiler demonstration unit for Uganda Technical College-Lira	BEAPE-IV	2012
45	Design of a rain water harvesting system for Rwebisengo health centre IV	BEMME-IV	2013
46	Design of an emission control system for a biomedical waste incinerator at Ndeje health centre	BEMME-IV	2013
47	Improving the crew seats on patrol vehicles for Uganda police force	BEMME-IV	2013
48	Design of an improved pineapple solar dryer for Bitooma village	BEAPE-IV	2013
49	Design of a reliable power backup system for the DMPE	BEAPE-IV	2013
50	Design of an appropriate coffee bean roasting machine	BEMME-IV	2014
51	Design of a contactless magnetic brake for motor vehicle application	BEAPE-IV	2014
52	Redesigning the motor vehicle workshop at DMPE to assemble a vehicle	BEAPE-IV	2015
53	Design of a solar PV water pumping system for use in agricultural irrigation	BEAPE-IV	2015
54	Design of an improved biochar stove in Mukono Town council	BEMME-IV	2015
55	Design of an improved charcoal stove by incorporating an oven	BEAPE-IV	2015
56	Designing of a plastics granulator	BEMME-IV	2015
57	The impact of autotronics on servicing and repairing in automotive workshops	BEAPE-IV	2015

58	Analysis of performance of internal combustion engine laboratory testing equipment at Kyambogo University	BEAPE-IV	2015
59	Design of a maintenance system for earth moving equipment at BMK (U) Ltd.	BEAPE-IV	2015
60	Improving operations of small scale motor vehicle maintenance workshops in Kampala	BEAPE-IV	2015
61	Improving performance of Uganda Police Mechanical Workshop	BEAPE-IV	2015
62	Re-organising lay out and equipping Ministry of Works and Transport Soroti Station motor vehicle workshop	BEAPE-IV	2015
63	Improving the workshop layout and management of Trinity Auto Services Limited	BEAPE-IV	2015
64	A study of the causes of poor workmanship in Automotive body repairs in garages in Kampala	BEAPE-IV	2015

Computer skills and competences

- competent with most Microsoft Office programmes
- Internet research and communication, AutoCAD, Solid edge and C++ Programming Language.

Artistic skills and competences

Creating Artistic design of components and reading mystery book. Enjoy games such as chess and squares, sports particularly football, cross country races and running. Love to travel and experience different cultures

Driving licence

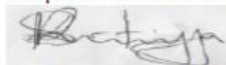
I have a valid driving permit with 7 years' experience.  
Class B

Additional information Referees

Dr Kyakula Micheal  
Dean, Faculty of Engineering  
Kyambogo University  
P. O. Box 1, Kyambogo.  
Mobile: +2560712497372

Assoc. Prof Senfuka Christopher  
Head of department, Mechanical Engineering  
Faculty of Engineering, Technology, Applied design and Fine Art  
Kabale University  
P. O. Box 317, Kabale  
Mobile: +2560772586640

Prepared and Submitted by:



KAKEBE SEKAJJA ROBERT

