

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	ANTONIO SEMAKALU		
Address(es)	Uganda National Bureau of Standards Plot M217 Nakawa Industrial Area P.O.Box 6329 Kampala, Uganda		
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E-mail	Sem3k@gmail.com , Antonio.semakalu@hotmail.com		
Nationality	UGANDAN		
Date of birth	11 th – 10- 1981		
Gender	MALE		

Carrier Objective

- Holding a challenging position where professional experience and expert knowledge can be exploited to maximum
- Obtaining a position in analytical chemistry, environmental science, nuclear science, measurement science etc that will enhance my skills and expertise in the field of Metrology in chemistry, nuclear science, data analysis and evaluation hence helping in food safety.
- Job satisfaction and an opportunity to build on existing experience

Desired employment / Occupational field

Chemical technology/Analytical chemistry/Environmental/Chemistry Related Field/ Research and development /Measurement science/Metrology/Data analysis and evaluation/ Food safety and inspection

Work experience	
Dates	01 ST - JULY-2019 To Date
Occupation or position held	SENIOR METROLOGIST
Main activities and responsibilities	- Develop calibration methods and techniques based on principles of measurement science, technical analysis of measurement problems, and accuracy and precision requirements to calibrate client's equipment - Evaluate calibration systems that measure characteristics of objects, substances, or phenomena such as length, mass, time, temperature, electric current, luminous intensity, and derived units of physical or chemical measure - Identify magnitudes of error sources contributing to uncertainty of results to determine reliability of measurement process in quantitative terms in line with set NML policies and procedures. - Train and direct private calibrators engineering, quality, and laboratory personnel in design, manufacture, evaluation, and calibration of measurement standards, instruments, and test systems to ensure selection of approved instrumentation - Prepare measurement schemes for determination of uncertainties and ensures installation and examination of new Equipment - Ensures training of junior staff in the use and calibration of equipment - Participate in planning of calibration work and undertake tests/ calibrations in line with the Departmental guidelines, procedures and work plan - Undertake on-site tests/calibration services line with the Departmental guidelines, procedures. - Undertake inter-calibrations in collaboration with other laboratories and undertake clear documentation - Develop and implement a quality management system for the Laboratory - Perform any other relevant duties that may be assigned from time to time by the head of division.
Name and address of employer	Uganda National Bureau of Standards P.O.Box 6329 Kampala, Uganda
Type of business or sector	Government institution
Work experience	
Dates	12 TH - March-2012 - 28 TH - JUNE-2019
Occupation or position held	ANALYST
Main activities and responsibilities	- To perform tests/analysis and maintain detailed records of all analysis on imported and export goods, interpret test results and carrying out trainings to clients. - Developing and validating methods of analysis. - maintain equipment in operating conditions and do service checks (quality assurance) - Preparing sampling plans and carries out inspection - Initiates or recommends corrective actions to improve, as may be necessary, the quality control activities/system of the laboratory to conform to the authorized policies - Performing Proficiency Testing and inter laboratory comparisons duties
Name and address of employer	Uganda National Bureau of Standards P.O.Box 6329 Kampala, Uganda
Type of business or sector	Government institution

Dates	31 st -September-2010 To 12 TH - March-2012
Occupation or position held	MASTER'S STUDENT/RESEARCHER
Main activities and responsibilities	- Radioactivity Analysis - Measurement procedure development and validation - Quality control - Preparing the Nuclear spectroscopy laboratory for accreditation of the developed procedures
Name and address of employer	Nuclear Spectroscopy Laboratory Testing Centre of the University of Tartu Institute of Physics, University of Tartu Ravila 14a, 50411 Tartu, Estonia
Type of business or sector	Education/Testing centre
Dates	1 st –November-2008 To 31 st -September-2010
Occupation or position held	TECHNICIAN
Main activities and responsibilities	- To prepare and to standardize normal solutions and to avail them and various indicators at all times - To identify inputs which are necessary for each of the tests which is to be conducted such as reagents, equipment etc - To arrange inputs for each of the analysis - Chemical testing - To carry out routine tests on samples and to interpret test results - Maintenance and laboratory safety - To ensure routine maintenance of both corrective and preventive nature including cleanliness of the lab. - To sensitize lab cleaners and any other lower cadre staff and any users of the lab of safety precautions - To report all cases of breakage and breakdowns to the analyst
Name and address of employer	Uganda National Bureau of Standards P.O.Box 6329 Kampala, Uganda
Type of business or sector	Government institution (Standards body)
Dates	04 th –January-2008 to date
Occupation or position held	LECTURER
Main activities and responsibilities	Part time lecturing (chemistry education, Mathematics in chemistry, organic chemistry, analytical chemistry and environmental chemistry courses).
Name and address of employer	KAMPALA UNIVERSITY P.O Box 25454 Kampala-Uganda
Type of business or sector	Education
Dates	14 th –JULY-2006 TO 28 th –May-2007
Occupation or position held	CUSTOMER CARE EXECUTIVE
Main activities and responsibilities	- Expanding and consolidating the business within existing key customers and Service and merchandise existing customers - Giving all technical support and trainings to the user of the product and the systems for safety and environmental protection.

Name and address of employer	JohnsonDiversey East Africa Ltd. Kaptagat Road, Loresho, P O Box 41939-00100 GPO Nairobi
Type of business or sector	Production and Selling of cleaning products and hygienic systems to Industries and Hotel institutions in E.Africa.
Dates	11th –September-2005 TO 28th –May-2006
Occupation or position held	QUALITY ASSURENCE OFFICER
Main activities and responsibilities	- Proper and safe storage of drugs - Ensure the quality of drugs reach the standards as per National drug authority - Ensure proper and safe disposal of expired and damaged products
Name and address of employer	Pharmaco Uganda Ltd. P O Box 17001 Kampala
Type of business or sector	Pharmaceutical products
Dates	11th –Feburary-2002 TO 28th –september-2005
Occupation or position held	TEACHER/LABORATORY TECHNICIAN
Main activities and responsibilities	- Teaching chemistry, physics and Mathematics - Conducting laboratory practicals for students
Name and address of employer	Bulamu secondary school Bulamu-Gayza
Type of business or sector	Education

Education and training

Dates	January 2020 - September 2021
Title of qualification awarded	Postgraduate Diploma in Project Planning and management
Principal subjects/occupational skills covered	Monitoring & evaluation: Paradigms, theories, concepts & principles, Society, government & politics in Africa, Project management theory & practice, Project planning, programming and IT systems, Project budgeting & financing management, Research methods, Project human resource management, Infrastructure planning & management, Project implementation analysis & management, Project leadership & decision making, Project procurement management
Name and type of organization providing education and training	UGANDA TECHNOLOGY AND MANAGEMENT UNIVERSITY, Kampala-Uganda
Level in national or international classification	Postgraduate diploma in project planning and management
Dates	25 th March - 06 th September 2019
Title of qualification awarded	Basic Quality Professionals Certificate
Principal subjects/occupational skills covered	Quality assurance, Quality Control, statistical quality management, quality management, Quality planning, Lean six sigma project, Data analysis, Risk analysis, keizan process, HACCP GAP, GMP etc.
Name and type of organization providing education and training	International trade Centre, EAC, World alliance for Quality
Level in national or international classification	Professional Training
Dates	2012 To 1 st December 2014
Title of qualification awarded	International Master programme "Measurement Science in Chemistry"
Principal subjects/occupational skills covered	Importance of Reliable Measurements to Implement EU Legislation, Validation of chemical Analysis Procedures, Traceability in Chemical analysis, ISO17025, Sampling and sample preparation in Food and Environmental Analysis, Alternative Approaches for the Quantification of measurement Uncertainty, Statistical basis of Calibration, etc.
Name and type of organisation providing education and training	International Consortium "Measurement science in Chemistry"
Level in national or international classification	International Master programme
Dates	31 st -September-2010 To 12 th - March-2012
Title of qualification awarded	Master of science in engineering (Applied measurement science)
Principal subjects/occupational skills covered	Environment and measurements, measurement and the law, nuclear engineering Chemical measurements, physical measurements, metrology in chemistry, fundamentals of metrology, structural analysis, signal processing, measurement and instrumentation, measurement and data processing, Nano metrology, practical work in nanotechnology, management systems, quality systems, etc.
Name and type of organisation providing education and training	TARTU UNIVERSITY, Tartu-Estonia
Level in national or international classification	Master's degree

Dates	August-2005 to February-2008
Title of qualification awarded	Bachelor of science Technology in chemistry (BST/C)
Principal subjects/occupational skills covered	Environmental chemistry, Petroleum technology, Plant design, pharmaceutical technology, Organic Chemistry, Inorganic chemistry, physical chemistry, analytical chemistry, GLT/O, Cement technology etc.
Name and type of organisation providing education and training	Kyambogo University, Kampala-Uganda
Level in national or international classification	Bachelor's degree
Dates	August-2002 to March-2005
Title of qualification awarded	Diploma of science technology in chemistry (ODST/C)
Principal subjects/occupational skills covered	Environmental chemistry, Organic Chemistry, Inorganic chemistry, physical chemistry, analytical chemistry, GLT/O, etc.
Name and type of organisation providing education and training	Kyambogo University, Kampala-Uganda
Level in national or international classification	Ordinary diploma.
Dates	February-2000 To December-2001
Title of qualification awarded	Uganda Advanced Certificate of Education (UACE)
Principal subjects/occupational skills covered	Physics, Chemistry and biology
Name and type of organisation providing education and training	Lubiri Secondary School, Kampala-Uganda
Level in national or international classification	High school
Dates	February-1996 To December-1999
Title of qualification awarded	Uganda Certificate Of Education (UCE)
Principal subjects/occupational skills covered	English, Mathematics, Biology, Chemistry, Physics, Commerce, Geography and Luganda.
Name and type of organisation providing education and training	Lubiri Secondary School, Kampala-Uganda
Level in national or international classification	Ordinary Level

Other trainings and workshops

Dates	16 th – 19 th December 2019
Title of qualification awarded	Certificate of completion of the training course on implementation of ISO/IEC 17021:2015
Principal subjects/occupational skills covered	Implementation of ISO/IEC 17021:2015 , General Requirements for the competence of testing and Calibration Laboratories, Conformity assessment- requirements for bodies providing Audit and certification of management systems. Part 1: Requirements
Name and type of organization providing education and training	Uganda National Bureau of Standards, Kampala-Uganda
Level in national or international classification	Training
Dates	14 th – 15 th November 2018
Title of qualification awarded	Certificate of completion of the training course in ISO/IEC 17025:2017
Principal subjects/occupational skills covered	The understanding of ISO/IEC 17025:2017 , General Requirements for the competence of testing and Calibration Laboratories.
Name and type of organization providing education and training	Uganda National Bureau of Standards, Kampala-Uganda
Level in national or international classification	Training
Dates	20 th – 22nd October 2017
Title of qualification awarded	Certificate of completion of the training in Occupational Health and safety
Principal subjects/occupational skills covered	General safety and health, OHS risk management, Fire safety training, Fire and first aid, etc.
Name and type of organisation providing education and training	Uganda National Bureau of Standards, Kampala-Uganda
Level in national or international classification	Training
Dates	22 nd – 25 th November 2016
Title of qualification awarded	Certificate of attendance in waters Quattro Micro GC Operators Training
Principal subjects/occupational skills covered	Theories of GC, EI source and Analyser, maintenance and cleaning, Calibration, Data Acquisition and Library creation etc.
Name and type of organisation providing education and training	Waters, Johannesburg-south Africa
Level in national or international classification	Training
Dates	16 th – 18 th November 2016
Title of qualification awarded	Certificate of attendance and completion of the basic Training course on Qtrap system for small molecule analysis.
Principal subjects/occupational skills covered	Ion path, QQQ and Qtrap scan types and experiments, Chemistry of ionization, Turbo spray (ESI), Heated Nebulizer (APCI), Hardware profile, Calibration of QQQ, Cleaning and maintenance of the instrument etc.
Name and type of organisation providing education and training	ABSCIEX, Pretoria-South Africa
Level in national or international classification	Training

Dates	20 th – 22nd October 2015
Title of qualification awarded	Certificate of attendance in Metrology in chemistry training of experts to become TrainMic Authorized Trainers
Principal subjects/occupational skills covered	Selection and certified reference material, sampling as part a measurement procedure, single laboratory validation, Uncertainty of measurement result evaluation, traceability etc.
Name and type of organisation providing education and training	European commission, Geel-Belgium
Level in national or international classification	Training
Dates	29 th September-01 st October 2015
Title of qualification awarded	Certificate of attendance in JRC Enlargement and integration Trainmic training course: quality assurance in analytical measurement for early-stage researchers.
Principal subjects/occupational skills covered	Importance of quality control and assurance, Basics of quality assurance, single laboratory validation, Uncertainty of measurement result evaluation, traceability etc.
Name and type of organisation providing education and training	European commission, Geel-Belgium
Level in national or international classification	Training
Dates	02 nd - 06 th August 2015
Title of qualification awarded	Certificate of participation/completion of the Regional (AFRA) training course on basic troubleshooting of analytical tools used in food and environmental safety laboratory
Principal subjects/occupational skills covered	Common causes of instrument/technique failures of LCS, HPLC, GC. Trouble shooting, diagnostics, and basic maintenance of LCS, HPLC, HPLC-UV-VIS-DAD-FLD, GC-ECD-FID.ect
Name and type of organisation providing education and training	International atomic energy agency (IAEA), AFRA, Department of Radioisotopes central veterinary research laboratory center ,Khartoum-SUDAN
Level in national or international classification	Training
Dates	24 th July 2015
Title of qualification awarded	Certificate of participation “Methods of determination for mycotoxins workshop/training
Principal subjects/occupational skills covered	Water Quality aspects, Urban water cycle, Ground water, Design aspects, Drinking water chemistry, Aeration, Filtration, Conditioning and softening.
Name and type of organisation providing education and training	Joint institute for food safety and applied nutrition (JIFSAN) International food safety training laboratory network and FDA, Maryland university, United states of America
Level in national or international classification	Workshop/Training
Dates	22 nd April 2015
Title of qualification awarded	Certificate of operation and user level maintenance of prominence ultra-fast liquid chromatograph (UFLC)
Principal subjects/occupational skills covered	Assembling of the equipment, operation of the equipment, trouble shooting skills and others.
Name and type of organisation providing education and training	Educational science and technical equipment company limited (ESTEC)
Level in national or international classification	Training

Dates	09 th April 2015
Title of qualification awarded	Honor Code Certificate CTB3365STx: Introduction to the Treatment of Urban Sewage
Principal subjects/occupational skills covered	Water Quality aspects, Urban water cycle, Ground water, Design aspects, Drinking water chemistry, Aeration, Filtration, Conditioning and softening.
Name and type of organisation providing education and training	Delft University of Technology through edX
Level in national or international classification	Online Training
Dates	09 th April 2015
Title of qualification awarded	Honor Code Certificate CTB3365STx: Introduction to the Treatment of Urban Sewage
Principal subjects/occupational skills covered	Water Quality aspects, Urban water cycle, Ground water, Design aspects, Drinking water chemistry, Aeration, Filtration, Conditioning and softening.
Name and type of organisation providing education and training	Delft University of Technology through edX
Level in national or international classification	Online Training
Dates	21 st January 2015
Title of qualification awarded	Honor Code Certificate CTB3365DWx: Introduction to Drinking Water Treatment
Principal subjects/occupational skills covered	Water Quality aspects, Urban water cycle, Ground water, Design aspects, Drinking water chemistry, Aeration, Filtration, Conditioning and softening.
Name and type of organisation providing education and training	Delft University of Technology through edX
Level in national or international classification	Online Training
Dates	7 th November 2014
Title of qualification awarded	Honor Code Certificate CTB3300WCx: Introduction to Water and Climate
Principal subjects/occupational skills covered	Global water cycle, Water systems
Name and type of organisation providing education and training	Delft University of Technology through edX
Level in national or international classification	Online Training
Dates	17 th September 2014
Title of qualification awarded	iCheck™ User proficiency certificate
Principal subjects/occupational skills covered	iCheck™ Flourro and iCheck™ Iron test kits for the measurement of Vitamin A and Iron in flour
Name and type of organisation providing education and training	BioAnakyt, Kampala-Uganda
Level in national or international classification	Training

Dates	17 th September 2014
Title of qualification awarded	Certificate of Participation and cooperation (flour fortification Training)
Principal subjects/occupational skills covered	Micronutrients (main Vitamins and micronutrients for flour fortification, functions/ sensitivity stability), flour fortification technical overview, Equipment, Interaction of micronutrients in flour etc.
Name and type of organisation providing education and training	Ministry of health, KFW DEG, Prime Merchandises and Mühlenchemie), Kampala-Uganda
Level in national or international classification	Training
Dates	30 th May to 13 th June-2014
Title of qualification awarded	Certificate of completion of the analytical-skills-development course 2014 (ASDC)
Principal subjects/occupational skills covered	Overview of the chemical weapons convention/OPCW, Laboratory quality management- General principles, chemical weapons (CW) and CW warfare agents analysis, training and hands-on experience in gas chromatography (GC) and gas chromatography-mass spectrometry (GC-MS) Troubleshooting and maintenance in GC and GC-MS, etc.
Name and type of organisation providing education and training	Organization for the Prohibition of Chemical Weapons (OPCW) and the Finnish Institute for Verification of the Chemical Weapons Convention (VERIFIN), Helsinki-Finland
Level in national or international classification	Training
Dates	11 th to 13 th November-2013
Title of qualification awarded	Certificate of attendance of the 10th evaluation workshop within the SADC MET proficiency testing scheme for water testing Laboratories with training on 'quality control charts'
Principal subjects/occupational skills covered	Experience in the Proficiency Testing scheme, Evaluation and assessment of the 10 th PT scheme, further developments of the PT schemes, training on quality control charts etc.
Name and type of organisation providing education and training	SADC MET/KEBS/PTB, Nairobi-Kenya
Level in national or international classification	Workshop
Dates	21 ST to 24 TH May-2013
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Sanitary and Phyto-sanitary (SPS) measures in the food value chain
Name and type of organisation providing education and training	Makerere University and Ministry of Trade industry and cooperatives, Kampala-Uganda
Level in national or international classification	Training
Dates	August-2011
Title of qualification awarded	Certificate of attendance
Principal subjects/occupational skills covered	"Neutron 2011" Health Physics and Radiation Safety, Emission of radio-nuclides and others.
Name and type of organisation providing education and training	Tallinn University of Technology, Tallinn-Estonia
Level in national or international classification	Summer school
Dates	10 th to 23 rd July 2011
Title of qualification awarded	Certificate of attendance (Measurement Chemistry science)
Principal subjects/occupational skills covered	Validation of chemical analysis procedures, ISO 17025 quality systems and laboratory assessments, sampling and sample preparation Traceability in chemistry, statistics and statistical basis of calibration etc.
Name and type of organisation providing education and training	European Commission, joint research centre, institute for reference materials and measurements – EC-IRC-IRMM, Poznan-Poland

Level in national or international classification	Summer School
Dates	06 th August 2009
Title of qualification awarded	Certificate of completion
Principal subjects/occupational skills covered	Ethics and integrity
Name and type of organisation providing education and training	Transparency international Uganda Chapter, Kampala-Uganda
Level in national or international classification	Training
Dates	05 th to 10 th December-2008
Title of qualification awarded	Certificate of attendance of the 5th evaluation workshop within the SADC MET proficiency testing scheme for water testing Laboratories
Principal subjects/occupational skills covered	Experience in the Proficiency Testing scheme, Evaluation and assessment of the 5 th PT scheme, further developments of the PT schemes, training on management requirements of ISO/IEC17025 etc.
Name and type of organisation providing education and training	SADC MET/PTB, Kampala-Uganda
Level in national or international classification	Workshop
Dates	15 th to 16 th November-2007
Title of qualification awarded	Certificate of Participation
Principal subjects/occupational skills covered	Product impact on the environment, Health and safety at Johnson Diversy EA.
Name and type of organisation providing education and training	Johnson Diversey, Nairobi-Kenya
Level in national or international classification	Training
Publications	
1.	Radon leakage as a source of additional uncertainty in simultaneous determination of ²²⁶ Ra and ²²⁸ Ra by gamma spectrometry- Validation of analysis procedure
Personal skills and competences	
Mother tongue(s)	Luganda
Other language(s)	
Self-assessment	
European level (*)	
English	
Arabic	
Swahili	

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C ₁	C ₁	C ₁	C ₁	C ₁	
A ₂	B ₂	A ₂	A ₂	B ₂	
A ₂	B ₂	A ₂	A ₂	B ₂	

(*) Common European Framework of Reference for Languages

Social skills and competences	Good ability to adapt with new culture and Diversity as I worked and stayed in a number of countries with having no problem Good communication skills gained from my customer care job in Johnson Diversey and in my daily work. Team work has been carried on since my primary school studies to date
Organisational skills and competences	Leadership skills were acquired from my primary school to date and to whenever i go, as of now I am in charge Thermodynamics and analytical metrology Laboratory. I play a big role in our Proficiency testing.
Technical skills and competences	Skilled in using analytical instruments like AAS, AES, HPLC, UV-Vis, GC, GC-MS, LC-MS/MS Gamma-spectrometer etc. Technically skilled in chemistry analytical work like, quality control and assurance. Well versed with ISO: 17025, GLP/GMP, ISO 14001, ISO 19001, WHO Guide etc. Customer care. All these acquired from different trainings
Computer skills and competences	Microsoft office programs (Word™, Excel™ and PowerPoint™), Mynstat, Mathcad, GammaVision and Gum work Bench I acquired all these through formal studies and trainings.
Artistic skills and competences	Football, Athletics, swimming and Chase. Learning new languages
Other skills and competences	Interpersonal skills, getting new friends, Learning new culture
Driving licence	Classes CM and B
Annexes	All my academic qualifications and other certificates
Reference	Prof. Ivo Leito Program Coordinator (Applied Measurement Science) Ivo.leito@ut.ee Institute Of Chemistry University of Tartu Ravila 14a, 50411 Tartu Tel: +3725184176 Dr.Madis Kiisk, PhD Head of Estonian Research unit Euratom trans-national Association-Tekes University of Tartu. Ravila 14a, 50411 Tartu madis.kiisk@ut.ee Tel: +3727374780 Mr. Aziz Mukota Head chemistry Laboratory Uganda National Bureau of standards. aziz.mukota@unbs.go.ug Tel: +25 671 2962692,