



**Mr. Nyabundi Solomon Aguga,
MSc. (F'sati-ESIEE, France), MTech. (TUT, Pretoria, S.A)**

PERSONAL INFORMATION

Date of birth Born in Kenya, 23 July 1977
Nationality Kenyan
Marital status Married
Email solonyabs@gmail.com
Phone +254718367213, +254715611768

Career Objective

My career objective, is to obtain an academic position in higher education institutions that will allow me to use my strong passion and dedication for student development coupled with research skills and industrial working experience that will enable me to make a difference at the institution. I would also like to lead students and to participate in research programs since I have the ability to initiate and conduct research independently. I also have administrative and instructional abilities to lead students, abilities which I have mastered during my postgraduate research studies.

EDUCATION.

Jan 2008 -Feb 2011 : (TUT), Pretoria, SOUTH AFRICA

Graduated: Feb, 2011

Grade: Cum Laude

School: Engineering & Built-In Environment

Dissertation: Model-Free Control for Wheeled MobileRobots (WMR).

Description: Developing a Model Free Control for WMR.

Supervisors: Prof. Guoyuan Qi (TUT), Prof. YaskandarHammam (TUT).

MTech.

***(Engineering Electrical)-
Systems & Controls.***

MSc.

(Engineering Electrical)- Jan 2008 -Feb 2011: F'SATI -ESIEE FRANCE THRO' (TUT), SOUTH AFRICA
Electronic Engineering.

Graduated: *Feb, 2011*

Grade: Cum Laude

School: Engineering & Built-In Environment

MSc by Coursework:

1. *Digital Control V.*
2. *Signal Theory V.*
3. *Embedded Systems*
4. *Special Topic I: Optimization*
5. *Special Topic II: Fuzzy Logic Control*
6. *Special Topic III: Advance Digital Control*
7. *Real Time DSP*
8. *Engineering Management V*
9. *French Language Skills*
10. *Scientific Computing*

**Bsc. Computer Science
& Engineering**

Sept 1998-Dec 2002 : Maseno University, Kenya

Graduated: *Dec, 2002*

Grade: Upper second Class Honors

School: Computing & Informatics

Final Project: Closed Circuit television Switcher (CCTV)

**Kenya Certificate of
Secondary of Education
(K.C.S.E)**

Jan 1993- Nov 1996: Muhoroni High School

B Plain 77 points/96 points

*Mathematics, English, Kiswahili, Physics, Chemistry, Biology,
Agriculture, Geography History.*

**Kenya Certificate of
Primary of Education
(K.C.P.E)**

Jan 1984- Nov 1992: Korwenje Primary School

494/700 Marks

*Mathematics, English, Kiswahili, Science and Agriculture,
Geography, History & Civics and Religious Education,
Art & Craft and Music Home Science and Business Education*

WORK EXPERIENCE

**Maseno University
Kisumu, Kenya**

Jan 2010- Current : Assistant Lecturer

1. Lecturing and teaching undergraduate degree programs in Computing, Telecommunication Engineering and common Electrical & Electronic Engineering units.
2. Reviewed teaching activities and identified and implemented strategies to improve student learning outcomes.
3. Dispersed, collected and graded assignments to give detailed feedback, including papers, quizzes and tests.
4. Initiated and facilitated classroom discussions.
5. Supported positive image of university by being responsive and

- promptly responding to requests and inquiries.
6. Scheduled lab and study sessions for students to increase subject understanding and maintain % GPA in classrooms.
 7. Monitored student progress during lessons and lectures, adapting plans to enhance effectiveness.
 8. Oversaw graduate student projects and advised on focus, methodology and report generation to meet present standards.
- Guided students in researching, structuring & presenting debate case.

***Rongo University
Migori, Kenya***

2015-2017 part time Lecturer

1. Lecturing and teaching undergraduate degree programs in Telecommunication Engineering and common Electrical & Electronic Engineering units.
2. Conducting trainings on the use of measuring instruments and techniques to undergraduate students within the Electronics Labs projects
3. Conducting and supervising laboratory practical's for the undergraduate.

***Maseno University
Kisumu, Kenya***

July 2005-dec 2007 DEMONSTRATOR/Graduate Research Assistant

1. Liaised between faculty and students to answer questions and optimize school/faculty time.
2. Recorded data and maintained source documentation following good documentation practices.
3. Researched information regarding computer Engineering to assist professors and lecturers with academic pursuits.
4. Supervised undergraduate students working on research projects.
5. Maintained and calibrated equipment for precision and accuracy.
7. Maintained and repaired Laboratory appliances
8. Conducted and supervised undergraduate laboratory practicals,
9. Marked undergraduate laboratory practicals,

***Spectre International
Otonglo Molasses Plant
Kisumu, Kenya***

May 2004-June 2005 Instrumentation Control Technician

1. Calculated component and instrumentations specifications for Systems, utilizing both off-the-shelf components and custom-built solutions.
2. Designed automation concepts and protocols for diagnostic testing and simulation purposes, applying Good Automated Manufacturing Practice (GAMP) protocols.
3. Participated in design specification review meetings, coordinating with inter-departmental teams to align ongoing efforts and overall business goals.
4. Communicated complex technical specifications to

- non-technical people in easily comprehensible formats.
5. Contributed to client proposals, spearheading compliance with prescribed technical specifications and budgetary concerns.
 6. Revised instrumentation guidelines to address exceptions and provide clarification, where needed.
 6. Drafted full piping and instrumentation diagram (P&ID) documents for use in [Type] Industry.
 7. Gathered field data and software calculations to put together high-quality designs.

Agro Chemicals LTD
Muhoroni Plant
Kisumu, Kenya

Jan 2003-march 2004: Instrumentation Control Technician

- Effective use of transmitters Level, Temperature, Pressure etc.
- Instrument control panel installations and wiring.
- Development and designs for new control instruments.
- Installation of new control loops for the instruments.
- Installation of new hardwares for production ie valves etc.
- Servo control-loop modeling, design and implementation.
- Design and development of analogue and digital electronics hardware,
- Installation of new process control instruments.
- Process and boiler controls Instrument maintenance.
- Instrument control panel installations and wiring.
- Servicing and maintenance of process control instruments.
- Telephone network and Switch Board maintenance.

BOG Teacher
Muhoroni High School

Jan 2003-march 2004 Instrumentation Control Technician

Taught: *mathematics, Physics and Computer studies*
 Games Assistant Master.

OTHER QUALIFICATIONS

- **CCNA(Cisco Certified Networking Academy) 1-4**
- **FRENCH LANGUAGE SKILLS.**

ADDED EXPERIENCE

- Presiding Officer -2010 Referendum IIEC –Nduru Kadero-Seme

REFEREED CONFERENCE PUBLICATIONS

2-3rd June 2009

S. Nyabundi, G. Qi, Y. Hamam, J. Munda. Dynamic Modelling of Electric Power Wheelchair. In: Proceedings of the 2nd International Conference on Control Instrumentation And Mechatronic Engineering (CIM 2009), 2-3 June, 2009 Melaka Malaysia.

23-35 Sept 2009

S. Nyabundi, G. Qi, Y. Hamam, J. Munda. DC Motor Control via High Order Differential Feedback Control. In: Proceedings of the 9th IEEE Africon International Conference, 23-25 September, 2009 Nairobi, Kenya.

23-35 Sept 2009

S. Nyabundi, G. Qi, Y. Hamam, J. Munda, Input-Output Linearizing and Decoupling Control of a Nonholonomic Power Wheelchair. In: Proceedings of the 9th IEEE Africon International Conference, 23-25 September, 2009 Nairobi, Kenya.

REFEREES

Dr. Okoth Sylvester McOyowo, PhD
Dean : School of Computing & Informatics
Maseno University
Building: Tuition Block
Private Bag , Maseno 40105, Kenya.
Cell : +254724519458
Email :oyowosilver@gmail.com

Dr. Steven Omondi Awino, PhD. (UKZN)
Head Telecommunication Engineering
Dept: Electrical & Electronics Engineering.
Technical University of Kenya (TUK)
Private Bag, Nairobi, Kenya
Email : stevenawino@ieee.org , stevewn06@gmail.com
Cell: +254728245823 and +278032081299

Dr Henry Okoyo, PhD
Director ICT & Senior Lecturer Maseno University,
Computer Science and Technology
Maseno University
Building: Tuition Block
Private Bag , Maseno 40105, Kenya.
Cell : +254726291662
Email: okoyohoa@yahoo.com